

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Breast and Ovarian Cancer Associated Gene Sequences and
Polypeptides

<130> PA103PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 846

<170> PatentIn Ver. 2.0

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<211> 1913

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<213> Homo sapiens

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<221> misc feature

<222> (842)

<223> n equals a,t,g, or c

<400> 2

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<211> 354

<212> DNA

<213> Homo sapiens

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<221> misc feature

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ctttcgaagg ggatgtttct gtaacactgt gttattctgg atcttcaaat aatagcaaa 180
ccaattactc taaatgtaaa atttttctat tcccaagggt cacttttggt tggtaggtt 240
tcacgntttt aaatactgtt taatggaaga aaaatacgtg gccaggcgtg gtggctcaca 300
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<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<400> 4

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acggggcacg gcgagaggtc ctgccagata agctgtaggg gctcaggcca ccctccctgc 180
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<210> 5

<211> 2035

<212> DNA

<213> Homo sapiens

<400> 5

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<213> Homo sapiens

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<210> 7
 <211> 624
 <212> DNA
 <213> Homo sapiens

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 tctatagcat ttgatgttac aactctaagc gtagttcaaa gacatttaaa ttgacaagtt 180
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<212> DNA
<213> Homo sapiens

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c 301

<210> 9
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<212> DNA
<213> Homo sapiens

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catactttaa aagatcaaaa aaaaaa 686

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<213> Homo sapiens

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<222> (379)
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<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

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<211> 563

<212> DNA

<213> Homo sapiens

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<222> (13)

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<222> (37)

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<222> (510)

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<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

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agaaaggggg atgaaaaaa ant 563
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<210> 12
<211> 443
<212> DNA
<213> Homo sapiens

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<211> 2438
<212> DNA
<213> Homo sapiens

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<222> (117)
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<220>
<221> misc feature
<222> (681)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (713)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2413)
<223> n equals a,t,g, or c

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<210> 14

<211> 2347

<212> DNA

<213> Homo sapiens

<400> 14

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aagatcagggt attgataaca gaacatggcg acttgggaaa tggaaagtgt ttggatccaa 360
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gaaaaaa 2347

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<210> 15

<211> 2006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 15

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gccagcatg taaacaagag aaagacgata aggaagagaa gaaagacgca gctgagcaag 180
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ataaaaaaag ttttaaaaac tgaaaa 2006

<210> 16

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (985)

<223> n equals a,t,g, or c

<400> 16

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caaaaccagc tgccacgatc cgcacgtgc agggactggg agtgatgcct cccaaagcag 180
gccagaccat caccgttgca acccacgcca agcaaggggc ctgggtggcc agtgggtctg 240
gaactgtcca tacttcagcg gtgtccttac ccagtatgaa tgctgctgtg tccaagactg 300
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gcggcaggtc cctgtcagca ccacggttgt gtccacgtcc caggctggga agttgcctac 420
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cctcacaact atgccagcag gactaagct cattgctggc aataagcctg ttagtttctt 600
cactgctcag canttgacg agcttcagca gcaaggtcag gccacacagg tgcgcatcca 660
gactgtccct gcatcccatc tccaacaggg aacagcttct ggctcctcca aagcagtctc 720
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<210> 17

<211> 1589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<400> 17

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ttcgaagctc agcccccccc cctcattttg gatataggtc agtgaaggcc caggagagg 180
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ccatgattcg cccaaagcca gacagcaacg gggaggccra gtgcaggctg gcaccgcctt 240
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gggaaatggc ttgaagccaa gtcagctttg ccttccacgc tgtctccaga cccccacccc 360
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tgccctgtktg acatcagtg gcatggctcca gtctgctgcc ctccatcccg acatggacc 540
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agaaagaaaa ataaaaaaa aaaaaaaaaa 1589

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<210> 18

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 18

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caccgaattc aggaacttga aaaccttccc gggtccctgg ccggggattt gcgaacccaa 240
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gtggtggtgt gcatgcggag ggacacagcg ctggagacag ccctcaatgc taaggcctac 360
aagcgcasaa gcgccagtcc ctgcgcgagg cccgcatcac tgagaagctg gagaagcagc 420
agaagatcga gcaggagcgc aagcgccggc agaagcacca ggaatacctc aatagcattc 480
tccagcatgc caaggatttc aaggaatatc acagatccgt cacaggcaaa atccagaagc 540
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acgtggctaa ctcacggagc tgggtgncggc acaaggctgc ccaggtcgcc aaggagaaaa 780
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<210> 19
<211> 2192
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2143)
<223> n equals a,t,g, or c

<400> 19
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aacgacagaa agcacacaat gcgaagatga ggagctggag cacttgaggt tgcttgaacc 480
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<210> 20

<211> 1011

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 20

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gacagtttta ccgcattccr tccactcccg attccttcat ggatccggcg tctgcacttt 180
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taactttgaa cttggctagt tcaaagatag actcttcttt tgtaaagtaa ataaattctt 960
caaatgcaa aaaaaaaaaa aaaaaaaaaa cttcragact agttctctct c 1011

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<210> 21

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2003)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2007)

<223> n equals a,t,g, or c

<400> 21

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gcccagggtg aagggtggcg ccatagcctc cattcgtagt agaagcggct tttctgaaaa 1920
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aaaaaaaaat tctcgggggg ggnccngta cccaattgg 2019
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<210> 22

<211> 2022

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 22

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tgtgacgcca ctcaccttta ctgaggtgca cgagggccgt gctgacatca tgatcgactt 180
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gccttcttcc ccaagactca ccgagaaggg gatgtccact tcgactatga tgagacctgg 300
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gctaccactt gactctcagc ccagatgact gcagggcggt tcaaacaccta tatggccagc 480
cctggccact gtcacctcca ggacccagc cctgggcccc caggctggga tagacaccaa 540
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caggccggat cctcctgaag cccttttcgc agcactgcta tcctccaaag ccattgtaaa 1860
tgtgtgtaca gtgtgtataa accttcttct tctttttttt ttttaaaactg aggattgtca 1920
ttaaacacag ttgttttcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaggggc gccgctcgcg atctagaact ag 2022
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<210> 23

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 23

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gtaaacgtgt gacgggggaa agccaaggtc tggagaagct cccaggaaca ayygatggcc 180
ttgcagcact cacacaggac ccccttcccc taccctctcc tctctgccgc aatacaggaa 240
ccccagggg aaagatgagc ttttctaggc tacaattttc tcccaggaag ctttgatttt 300
taccgtttct tccctgtatt ttctttctct actttgagga aaccaaagta accttttgca 360
cctgtctctt tgtaatgata tagccagaaa aacgtgttgc cttgaaccac ttccctcatc 420
tctctcccaa gacactgtgg acttggtcac cagctcctcc cttgttctct aagttccact 480
gagctccatg tgccccctct accatttgca gagtccctga cagttttctg gctggagcct 540
agaacaggcc tcccaagttt taggacaaac agctcagttc tagtctctct ggggccacac 600
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caggctcttg agctgagcct ctcacctgta ctctccgaa aaatcctctt cctctgaggc 720
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gttgagctgt tgcctcagtc ccccaacaga tgcttttctg tctctgcctc cctcaccctg 840
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tcaccagctg ctccttctgt gggtgacca ggtccttggt tgctgttgat ttctttccag 960
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gagtattggg tagatatatt ttctgaatac aaagtgatgt gtttaaatac tgcaattaaa 1080
gtgatactga aacacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaan 1126
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<210> 24

<211> 2598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2553)

<223> n equals a,t,g, or c

<400> 24

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raggtttaaa garactacca gaccattttc caatgaatgt cttggtagca ccagaccctg 120
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```

agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
acagtcgat acatacttct gcatgtctat gcgaatacca gtggatgagg aagccttcgt 240
gattgacttc aagcctcgag ccagcatgga tactgtccat cacatgttac tttttggatg 300
caatatgcct tcatccactg graattactg gttttgtgat gaaggaaacct gtacagataa 360
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tggattcaga gttggaggag agactggaag taaatacttt gtactacagg tacactatgg 480
ggatattagt gcttttagag ataataacaa ggactgttct ggtgtgtcct tacacctcac 540
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cccagcagga gaaaaagtgg tgaattctga ctttcatgc catrtwaaa attatccaat 660
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ggaaatccaa agaagcccga gggcatttgt tgtttcccn ttacaaccct tcgggttatt 2520
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<210> 25

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 25

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gcaccagat gccagggcg aggtgcgctt gtctgtacct ccgctggtgg aggtgatgcg 180
aggaaagtct gtcattctgg actgcacccc tacgggaacc cagcaccatt atatgctgga 240
atggttcctt accgaccgct cgggagctcg cccccccta gcctcggtg agatgcaggg 300
ctctgagctc caggtcacaa tgcacgacac ccggggccgc agtcccccat accagctnng 360
actyccangg ggcgcctggt ngctggnytg anggccark tggcgacgag c 411
```

<210> 26

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 26

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aggggaaggg ggaaaggtgt aggctggggg attgaggtgg ggaatcattt tagctggtgt 120
cagccctct tcccttcctc cattgcacat gaacatatgt ccatccatat atattcatca 180
gaatgttaat ttattttgct ccctctgtta ggtccatttt ctaagggtag aagaggcaag 240
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tggtagggat gaggtctgat aagaacccag ggtggagagg gagactcctg ggcagccgtt 300
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gacatgggaa aaaccactgc tatgccattt cttctctctg ttcccttctt caccctcgac 420
ggtgtggctg atgatgtctt ctggtgtcat ggtgaccacc ccctgttccc tgttctggta 480
tttccctgt cagtttcccc tctcgccag gttgtgtccc aaaatcccc cagcctcttc 540
tctgcacgtt gctgaaggtc caggcttgcc tcaagttcca tgcttgagca ataaagtggg 600
aacaataaaa cctgggaaaa aaaaaaagg gggncgttct aaaggatccc cnagggg 657

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<210> 27

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 27

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agccaccatg aaggtggggg aggtgtgcca catcacctgc aaaccagaat atgcctacgg 180
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agagcggggc actgtgtact tcaaggaagg taaatacaag caagctttac tacagtataa 720
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<210> 28

<211> 1333

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1319)
<223> n equals a,t,g, or c

<400> 28
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tggccatctt cgggcccccc aacacctact acgagggcgg ctacttcaag gcgcgcctca 180
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acgcctcgt gatgtacagg aagtggaaag agagcaagg gaaggatcgg gactacacag 480
acatcatccg gaagcaggtc ctggggacaa ggtggacgcg ggtgaacggc gtgaagggtc 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nanaaaaana 1320
aaaaaaaaaa ttt 1333

<210> 29
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1325)
<223> n equals a,t,g, or c

<400> 29
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aatacaaggg cgccgcgagc gaggccggcc gcgccatgca cctgatgaag aagcgggaga 120
agcagcgcca gcagatggag cagatgaagc agcgcatcgs ggaggagAAC atcatgaaat 180
ccaacattga caagaagttc tctgcgcact acgacgcggt ggaggcagag ctcaagtcca 240
gcaccgtggg tctcgtgacc ctgaatgaca tgaaggccaa gcaggaggct ctggtgaagg 300
agcgggagaa gcagctggcc aagaaggagc agtccaagga gctgcagatg aagctggaga 360
agcttcgaga gaaggagcgt aagaaggaa ccaagcggaa gatctccagc ctgtccttca 420
ccctggagga ggaagaagag ggaggcgagg aggaagagga gccggccatg tatgaggagg 480
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acacaagctt cttgcctgat cgagaccgtg agnaggagga gaatcggctt cgggaagagc 600
tgccgcagga gtgggaagcc aagcaggaga agatcaagag tgaggagatc gagatcacct 660
tcagctactg ggatggctct gggcaccggc ggacagtcaa gatgagaaag ggcaacacca 720
tgacgagctt cctgcagaag gcgctcgaga tccttcggaa agacttcagt gagctgaggt 780
ccgcagggkt ggagcagctc atgtacatca aggaggactt gatcatccct caccatcaca 840
gcttctacga cttcatcgtc accaaggcac gggggaagag tggaccactc ttcaactttg 900
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gctgggaacc ctacgaccct gaaaagaagt gggacaagta cacgatccgc tgagcatcca 1080
ggaggctgcg cgccccggc tcctcagctc cctcagtgtg ccccggtgtg tcaccgggac 1140
tccaggcacc cgctcccctg cgaccatgcc aggcacgctg ggaggaggac ggcagctgct 1200
cgtgtcctgc ccctgccaca tcagtactg ctttattctt ttccaataaa gaagtgcacg 1260
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agggngg 1327

<210> 30
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (696)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (701)
<223> n equals a,t,g, or c

<400> 30

```

aattcccggg ttcgaccac gcgtccgga aactgcagct tccttctcac cttgaagaat 60
aatcctagaa aactcacaaa atgtgtgatg cttttgtagg tacctggaaa cttgtctcca 120
gtgaaaactt tgatgattat atgaaagaag taggagtggg ctttgccacc aggaaagtgg 180
ctggcatggc caaacctaac atgatcatca gtgtgaatgg ggatgtgatc accattaaat 240
ctgaaagtac ctttaaaaat actgagattt ctttcatact gggccaggaa tttgacgaag 300
cactgcagat gacaggaaa tcaagagcac cataacctta gatgggggtg tcctggtaca 360
tgtgcagaaa tgggatggaa aatcaaccac cataaagaga aaacgagagg atgataaact 420
gggtggtggaa tgcgtcatga aaggcgtcac ttccacgaga gtttatgaga gacataagc 480
caagggacgt tgacctggac tgaagtctgc attgaactct acaacattct gtgggatata 540
ttgttcaaaa agatattggt gttttccatg atttagcaag caactaattt tctcccaagc 600
tgattttatt caatatgggt acgttgggtt aataaacttt ttttagattt aaaaaaaaaa 660
aaaaaaaaac ycgggggggg gcccggtacc caattngccc nttagggggg 709

```

<210> 31

<211> 1108

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 31

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ccaaacaact ttttaattgat ccagaagatg atgtaagaga taatatTTTA aaatatgatg 120
aagaaggtgg aggagaagaa gaccaggact atgacttgag ccagctgcag cagcctgaca 180
ctgtggagcc tgatgccatc aagcctgtgg gaatcygacg aatggatgaa agacccatcc 240
acgccgagcc ccagtatccg gtccgatctg cagccccaca ccctggagac attggggact 300
tcattaatga gggccttaaa gcggctgaca atgacccac agctccacca tatgactccc 360
tgttagtgtt tgactatgaa ggcagtggnt ccactgntgg gtccttgagc tcccttaatt 420
cctcaagtag tgggtggtgag caggactatg attacctgaa cgactggggg ccacggttca 480
agaaacttgc tgacatgtat ggtggaggtg atgactgaac ttcagggtga acttggtttt 540
tggaacaagta caaacaattt caactgatat tccccaaaag cattcagaag ctaggcttta 600
actttgtagt ctactagcac agtgcttgct ggaggctttg gcataggctg caaaccaatt 660
tgggctcaga gggaatatca gtgatccata ctgtttggaa aaacactgag ctcagttaca 720
cttgaatttt acagtacaga agcactggga ttttatgtgc ctttttgtag ctttttcaga 780
ttggaattag ttttctgttt aaggctttta tgggtactgat ttctgaaacg ataagtaaaa 840
gacaaaatat tttgtggtgg gagcagtaag ttaaaccatg atatgcttca acacgctttt 900
gttacattgc atttgctttt attaaaatac aaaattaaac aaamaaaaaa actcatggag 960
cgattttatt atcttggggg atgagaccat gagattggaa aatgtacatt acttctagtt 1020
ttagacttta gtttgttttt tttttttttt cactaaaatc ttaaaactta ctcagctggt 1080
tgcaaaataa gggagttttc atatcacc 1108

```

<210> 32

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 32

```
gaatttttca ttatgttgct tttgaaattt gatgcattcc tcccatttac tttattattg 60
tacacattta acacacagta gcaaattttg aacgatgtga ttgatataac ctaacaaatc 120
tgagccagtt attattagag ttgcagaata gaaacttgaa gtgctaaatg gaataatcca 180
aaggaaattt tttaaatgca ggttctagct gaaaaattca actataagaa aattgtattt 240
atataacatt tactattttt gaagactagt gagatttctg taataatttt aattctttaa 300
aaagtgaag cttgttgtaa agatattttc tttttgttat tagaaggaaa tacaagaga 360
aaaatttctt tctttcatgg ggcatttgat aatttcagtc ttgacgatt tgtaagccta 420
gaatatacta agctgaataa cagctctttg gcctcagaat tttccagtag ccagtawttc 480
yggattaact aagttggaac cncytattag gaacctccag tggnga 526
```

<210> 33

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 33

```
ccggaccctg caccagcga ctgggccccg cgcgcgccct ccgcgagggg ggaggcggcg 60
gctgtgtgcg cagggcccg caccggactg ggaccctggc gtccctccag gccttgccctc 120
ctgcgggags acagtttggc ttcacttctc tgacccagc ctcggccgta aagtgaaga 180
gaccggacca gcttcagctt tcggactctg gttcttggat cgtgtcctct cccctcgcc 240
gccctcttcc cccaatctga gccattkcag gcctctgcct gckgccccct ctctcctcgg 300
gatcgggtcc ccagagccac catctcctga gcctcccacc ccgctgcctg ggccctgtgg 360
ttgctgggcc tcccacctca aggaggggaa ggttgtagag cccgaaccgg tggagcaatg 420
ccctgtcttg cctccaaaac caaaataaaa ctgggtcact ttacaaaaaa aaaaaaaaaa 480
aagggcccg gaanaccgga ccggtacctg caggcgtacc ngtttcccta tagtgagttg 540
tattagcgtt gcata 555
```

<210> 34
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (288)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (328)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (335)
 <223> n equals a,t,g, or c

<400> 34
 gggctcgaccc acgcgtccgg accgcgcggc tagtggtgtg aggatctgag ccccggtggtg 60
 gggggtggag gcggctcctg cratctaaag ggacttgaga ctctcaccgg ccgcgcgcca 120
 tgagggccct gtgggtgctg ggcctctcct gctcctgct gaccttcggg tcggtccgar 180
 ctgaygatga agtcgatgtg gatggtacag tggaagagga tctgggtaaa agtagagaag 240
 gttcaaggac agatgatgaa gtagtacaga gagaggaaga agctattnca gttggatgga 300
 ttaaatgcat cccaaataag agaacttnag agagnaagtc cagaaaa 347

<210> 35
 <211> 750
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (701)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (731)
 <223> n equals a,t,g, or c

<400> 35
 ggggtggcttc cttgtgggtc ctcagtgtgt cctgcaaccc ctggttcacc tccttccagg 60
 ttctggctcc ttccagccat ggctctcaga gtccttctgt taacagcctt gaccttatgt 120
 catgggttca acttgacac tgaaaacgca atgaccttcc aagagaacgc aaggggcttc 180
 gggcagagcg tgggtccagct tcagggatcc aggggtggtg ttggagcccc ccaggagata 240
 gtggctgcca accaaagggg cagcctctac cagtgcgact acagcacagg ctcatgcgag 300
 cccatccacc tgcaggtccc cgtggaggcc gtgaacatgt ccctgggcct gtccctggca 360
 gccaccacca gccccctca gctgctggcc tgtggtccca ccgtgcacca gacttgacgt 420

```
gagaacacgt atgtgaaagg gctctgcttc ctgtttggat ccaacctacg gcagcagccc 480
cagaagttcc cagaggccct ccgagggtgt cctcaagarg atagtacat tgccttcttg 540
attgatggct ctggtagcat catcccat gactttcggc ggatgaagga rttgtctca 600
actgtgatgg agcaattaaa aaagtccaaa accttggtct ctttgatgca gtactctgaa 660
gaattccgga ttacttttac ttcaaagagt tccagaacaa ncctaaccga agatcactgg 720
tgaagccaat nacgcagctg cttggggcgg 750
```

<210> 36

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 36

```
aagaaaaatg tactacgcct gtcctgtang aagctgaaga tttttgcaat gcccattgag 60
gatatcaaga tgatcctgaa aatggtgcag ctggactcta ttgaagattt gggaagtgc 120
ttgtacctgg aagctaccca ccttggcgaa attttctcct tacctgggcc agatgattaa 180
tctgcgtaga ctctcctctt cccacatcca tgcattctcc tacatttccc cggagaagga 240
agagcagtat atcgcccagt tcacctctca gttcctcagt ctgcagtgc tgcagctnct 300
ctatgtggac tctttatatt tccttagagg ccgcctggat cagttgctca ggcacgtgat 360
gaacccttg gaaaccctct caataactaa ctgccggtt tcggaagggg atgtgatgca 420
tctgtcccag agtcccagcg tcagtcagct aagtgtcctg agtctaagtg gggcatgct 480
gaccgatgta agtcccagc ccctccaagc tctgctggag agagcctctg ccaccctcca 540
ggacctggtc tttgatgagt gtgggatcac ggatgatcag ctcttgccc tctgccttc 600
cctgagccac tgctcccagc ttacaacctt aagcttctac gggaaattcca tctccatatt 660
tgcttgcag agtctcctgc agcacctcat cgggntgagc aatctgacct acgtgctgta 720
tctgtcccc ctggagagtt atgaggacat ccattggtamc ctccamctgg agagggtgct 780
atctgcatgc caggntcagg gagttgctgt gtgattggg gcggcccagc atgggttctg 840
cttagtgggc aaccctgct ctcactgtgg ggacagaacc ttctatgacc cggagcccat 900
cctgtgcccc tggttcatgc ctaatarctg ggtgcacata tcaaatgctt cattctgcat 960
acttgacac taaagccagg atgtgcatgc atcttgaagc aacaaagcag ccacagtttc 1020
agacaaatgt tcagtgtgag tgaggaaaac atgttcagtg aggaaaaaac attcagacaa 1080
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```

atgttcagtg aggaaaaaaa ggggagttgg ggataggcag atgttgactt grggagktaa 1140
tgtgatcttt ggggagatac atcttataga gttagaaata gaatctgaat ttctaaaggg 1200
agawtctggc ttgggaagta catgtaggag ttaatccctg tgtagactgt tgtaaagaaa 1260
ctgttgaaaa taaagagaag caatgtgaag c                                     1291

```

```

<210> 37
<211> 1535
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1413)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1526)
<223> n equals a,t,g, or c

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```

<400> 37
ggcacgaggg tacgcagagc ttcgtcttcc agcgcgaaga gatagcgcag ttggcgcggc 60
agtacgctgg gctggaccac gagctggcct tctctcgtct gatcgtggag ctgcggcggc 120
tgcacccagg ccacgtgctg cccgacgagg agctgcagtg ggtgttcgtg aatgcgggtg 180
gctggatggg cgccatgtgc cttctgcacg cctcgctgtc cgagtatgtg ctgctcttcg 240
gcaccgcctt gggctcccg cggcactcgg ggcgctactg ggctgagatc tcggatacca 300
tcatctctgg caccttccac cagtggagag agggcaccac caaaagtga gttcttctacc 360
caggggagac ggtagtacac gggcctggtg aggcaacagc tgtggagtgg gggccaaaca 420
catggatggg ggagtacggc cggggcgctc tcccattccac cctggccttc gcgctggcgg 480
acactgtctt cagcaccag gacttctcct cctcttctta tactcttcgc tcctatgctc 540
ggggcctccg gcttgagctc accacctacc tctttggcca ggacccttga ccagccaggc 600
ctgaaggaag acctgcggat ggacaggagc gggcaggccc gcacatatcc acttgctgga 660
gcccattgtt acagacaggg acatacacca tgcagatcct gatttcctgc tgtatgagca 720
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actgaggcct ttccatagct ccacagcttc ccacctcctc cccaccaaac cggggttcta 960
gagttaagga tgggggaggg tattatactg cctcagctctg actcctcaac ccagcagcaa 1020
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gatgcccttc cccttctccc ctgtcctcac catatgcctt atccccattc tactccctcg 1140
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acgagagtaa tttgaagaat gcttgaagtc agcgtcttcc attccagaaa gacccccatt 1260
cttccttttg gggatgatg tggaagctgg ttccagccca ggaccacca ctgaggagag 1320
gatctagaca ggtgggccta attccaaggg gcccttcctg gcctggagaa ggccttttac 1380
acacacacaa cacatacaca cacacacaca canacacata tcacagtttt cacacagccc 1440
ctgctgcatt ctctgtccat ctgtctgttt ctattaataa agatttggtg atctgttcca 1500
aaaaaaaaa aaaaaaaaaa aaaaangggg gggt                                     1535

```

```

<210> 38
<211> 295
<212> DNA

```


<213> Homo sapiens

<400> 38

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ctgggtcacac tattacatgc catgcaggca cgcgataaaa cgctggggct ggcaacactg 60
tgcattggcg gcggtcaggg aattgcgatg gtgattgaac ggttgaatta atcaataaaa 120
acacccgata gcgaaagtta tcgggtgttt tcttgaacat cgacggcgaa ggtaacccca 180
ttaatcacca gtcaaaactt ttcaccagcg tcaactcgcca gcattacgca tcggtacaat 240
aaatgtttcc tgtttctcat tgaccgatcc ttcacggtg atcagcgtca ttggg 295
```

<210> 39

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<400> 39

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gcggactggc agggggcagg gaagctcaaa gatctggggg gctgccagga aaaagcaaat 60
tctggaagtt aatggttttg agtgattttt aaatccttgc tggcggagag gcccgcctct 120
ccccggtatc agcgttcctt cattctttga atccgcggct ccgcggctct cggcgctaga 180
ccagccggag gaagcctgtt tgcaatttaa gcgggctgtg aacgcccagg gccggcgggg 240
gcggggccga ggcggggccat tttraataaa gaggcgtgcc ttccaggcag gctctataag 300
traccgccgc ggcgagcgtg cgcgckttgc aggtcactgt agcgggactt cttttggttt 360
tctttctctt tggggcacct ctggactcac tccccagcat gaaggcgtg agcccggtgc 420
gcggctgcta cgaggcgggtg tgctgcctgt cggaacgcag tctggccatc gcccggggcc 480
gagggaaggg cccggcagct gaggagccgc tgagcttgct ggacgacatg aaccactgct 540
actcccgcct gcggraactg gtacccggag tcccagagag cactcagctt agccaggtgg 600
aaatcctaca gcgcgtcatc gactacattc tcgacctgca ngtagtcctg gccgagccag 660
cccctggacc cctgatggc cccaccttc ccatccagac agccgagctc gctccggaac 720
ttgtcatctc caacgacaaa aggagctttt gccactgact cggccgtgtc ctgacacctc 780
cagaacgcag gtgctggcgc ccgttctgcc tgggaccccg ggaacctctc ctgccggaag 840
ccggacggca gggatgggcc ccaacttcgc cctgccact tgacttcacc aaatcccttc 900
ctggagacta aacctggtgc tcaggagcga aggactgtga acttggtggc tgaagagcca 960
gagctagctc tggccaccag ctgggcgacg tcaccctgct cccacccac ccccaagttc 1020
taaggtctyt tcagagcgtg gaggtgtgga aggagtggct gctctccaaa ctatgccaaag 1080
gcggcggcag agctggtctt ctggtctcct tgagaaaagg ttctgttgcc ctgatttatg 1140
aactctataa tagagtatat aggttttgta ctttttttac aggaaggtga ctttctgtaa 1200
caatgcgatg tatattaaac tttttataaa agttaacatt ttgcataata aacgattttt 1260
```

aaacaaaaaa aaaaaaaaaa aagggggggcc gccctanngg 1300

<210> 40

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 40

cagaaacaga agttcacact aacagagtat gggtttaatt ttcctttgaa tgaaaaggat 60
agaaaagataa aattgtgtat tgtaacatg taaataaaat tggagctaata ttgaaactag 120
cttctcaata acttcatctt tctagagact cattacctgt gggcttgctm aacctggact 180
atctggccaa atwggttgga taaaaaaggn atntt 215

<210> 41

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<400> 41

tcgacccacg cgtccgggag actacggtaa aggcgcgcgc acgcagccaa catgccggtg 60
gcccggagct ggggttgctg caagnctacg tgaccctcgc gaggcccttt gagaagtcgc 120

```

ggctcgacca agagctgaag ctgataggcg agtacgggct ccggaacaaa cgtgaggtgt 180
ggaggggtcaa gttcaccctg gccaaagatcc gcaagnccgc gcgggarctg ctgacgctgg 240
acgagaagga cccgcggcgc ctgtttgagg gcaatgcctt gcttcggcga ctggtgcgca 300
ttggagtgtc ggacgagggc aagatgaagc tggattatat cctgggtctg aagatgagga 360
ttcttgagga grcntctgca gaccaggtt tttcaagctg gggttggcca atccatccac 420
catgccctgt gctgatccgc caggccacnc aggtccgaaa gcaagtgggtg aaca 474

```

<210> 42

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 42

```

cctgcgcttc gatgaatatg ggcgcccttt cctcatcatc aaggatcagg atcgcaagtc 60
tcgtcttatg ggactggagc tctcaagtct catatcatgg cggcaaaggc tgtagcaaat 120
accatgagaa catcacttgg accaaatgga cttgataaaa tgatggtgga caaggacggc 180
gacgtgacgg tcacaaacga cggtgccacg attctgagca tgatggatgt cgatcaccag 240
attgccaaagc tgatggtgga gctgtccaaa tcccaggatg atgaaatcgg agatggggac 300
cacgggggtg gttgtcctgg ccggcgccct gctggaagga ggccgagcag ctgctggacc 360
gcggcatcca mccgntcagg atcgccgacg gttacgagca ggntgcccgc attggccntc 420
gagca 425

```

<210> 43

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1149)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1156)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1160)
 <223> n equals a,t,g, or c

<400> 43
 tgtgggaact ggtgggtccc ccgggctggc agnaattggg nacgcggggtc gcggttcttg 60
 tttgtggatc gctgtgatcg tcacttgaca atgcagatct tcgtgaagac tctgactggt 120
 aagaccatca ccctcgaggt tgagcccagt gacaccatcg agaattgtcaa ggcaaagatc 180
 caagataagg aaggcatccc tcctgaccag cagaggctga tctttgctgg aaaacagctg 240
 gaagatggkc gcaccctgtc tgactacaac atccagaaaag agtccaccyt gcacctggt 300
 ctccgtctca gaggtgggat gcaaattctt gtgaagacac tcactggcaa gaccatcacc 360
 cttgaggtcg agcccagtga cacyatcgag aacgtcaaag caaagatcca rgacaaggaa 420
 ggcattcctc ctgaccagca gaggttgatc tttgccggaa agcagctgga agatgggcgc 480
 accctgtctg actacaacat ccagaaagag tctaccctgc acctggtgct ccgtctcaga 540
 ggtgggatgc agatcttcgt gaagaccctg actggttaaga ccatcacyst cgargtgagg 600
 ccgagtgaaca ccattgagaa tgtcaaggca aagatccaag acaagggaagg catccctcct 660
 gaccagcaga ggttgatctt tgctgggaaa cagctggaag atggacgcac cctgtctgac 720
 tacaacatcc agaaagagtc caccctgcac ctggtgctcc gtcttagagg tgggatgcag 780
 atcttcgtga agaccctgac tggttaagacc atcactctcg aagtggagcc gagtgacacc 840
 attgagaatg tcaaggcaaa gatccaagac aaggaaggca tccctcctga ccagcagagg 900
 ttgatctttg ctgggaaaca gctggaagat ggacgcaccc tgtctgacta caacatccag 960
 aaagagtcca ccctgcacct ggtgctccgt ctyagagggt ggatgcagat cttcgtgaag 1020
 accctgactg gtaagaccat cacyctcgaa gtggagccga gtgacaccat ygagaatgtc 1080
 aaggcaagat ccagacaagg aaggcatcct cctgaccagc agargttgat tttgctggga 1140
 aaarcttgna aatggncgan cccttttgat taaaatcccc aaagtcc 1187

<210> 44
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (217)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (465)

<223> n equals a,t,g, or c

<400> 44

```
ctgcagtacc gtccgaattc ccgggtcgac ccacgcgtcc ggtttgagcc gtcgtgcttc 60
accggtctac ctgcctagca tgtcgggccg cggcaagact ggcggaagg cccgcgcaa 120
ggccaagtgc cgtcgtcgc gcgcggcct ccagttcca gtgggcccgtg tacaccggt 180
gctgcggaag ggccactacg ccgagcgcgt tggcgcnngc rcgccagtgt acctggcggc 240
agtgcctggag tacctcaccg ctgagatcct ggagctggcg ggcaatgcgg cccgcgacaa 300
caagaagacg cgaatcatcc cccgccacct gcagctggcc atccgcaacg acgaggagct 360
caacaagctg ctggggcgcg tgacgatcgc ccagggaagg cgtyctgccc aacatccagg 420
ccgtgsttgy tgcccaagaa gaccagcgcc accgtggggc cgaangccct tcggggggca 480
agaaagggca accaaggcct cccaaggagt actaa 515
```

<210> 45

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 45

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gcgagtgcgc gctcctcctc gcccgccgct aggtccatcc cggcccagcc accatgtcca 60
tccacttcag ctccccggca tccgcgaggt caccattaac cagagcctgc tggccccgct 120
gcggctggac gccgaccctt cctccagcg ggtgcgccag gaggagagcg agcagatcaa 180
gacctcaac aacaagtttg cctccttcat cgacaagggt cggtttcttg agcagcagaa 240
caagctgctg gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg 300
cctcccagac atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca 360
ggtggatggg ggccgcctgg aggcggagct gcggagcatg caggatgtgg tggaggactt 420
caagaataag tacgaagatg aaattaaccg ccgcacagct gctgagaatg agtttggtgt 480
gctgaagaag gatgtggatg ctgcctacat gagcaagggt gagctggagg ccaagggtga 540
tgccctgaat gatgagatca acttcctcag gacctcaat gagacggagt tgacagagct 600
gcagtcccag atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga 660
cctggacggc atcatcgctg aggtcaaggc rcagtatgag gagatggcca aatgcagccg 720
ggctgaggct gaagcctggt accagaccaa gtttgagacc ctccaggccc aggctgggaa 780
gcatggggac gacctccgga ataccggaa tgagatttca gagatgaacc gggccatcca 840
gaggctgcag gctgagatcg acaacatcaa gaaccagcgt gccaaagtgg aggccgccat 900
tgccgaggct gaggagcgtg gggagctggc gctcaaggat gctcgtgcca agcaggagga 960
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ggagggcgag gagagccggt tggctggaga tggagtggga gccgtgaata tctctgtgat 1140
gaattccact ggtggcagta gcagtggcg tggcattggg ctgacctcg ggggaacat 1200
gggcagcaat gccctgagct tctccagcag tgcgggtcct gggctcctga aggcttattc 1260
catccggacc gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc 1320
```

cactcctcca gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg 1380
 gtcccaagac agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcs 1440
 tcattctgag gcctgagtga aaaaaaaaaa aaaaanaaaa aaaaaaattt tngggggggg 1499

<210> 46
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (167)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (178)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (219)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (359)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (372)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (378)
 <223> n equals a,t,g, or c

<400> 46
 tcgacccacg cgtccggcag cctttctgag ggagcgggtg tgtgttcgcc atcttaggaa 60
 gaagatgttc tcgtccgtgg cgcattctggc cgggcgaacc cttcaacgc gccccacctg 120
 cagctggtac acgatggcct cacgggcacc gaagcagccc cgtgggnacc cccgggcneg 180
 ccccgaaagt tcccgaatc tggcagcagc cgctgtggna agagtacagt tgcgaatatg 240
 gctccatgaa gttttatgca ctgtgtggct ttggtggggt cttaagttgt ggtctgacac 300
 aactgctgt cgttcctctg gatttagtga aatgccgaat gcargtggac ccccgagaant 360
 acaagggeak wnttaatngg attctcatta aca 393

<210> 47
 <211> 238
 <212> DNA

<213> Homo sapiens

<400> 47

```
cggatcccg ctcctgcac cagtcgccat tcgggaggcc gctgcgctgc agggcctcgc 60
ggaccgccc cgaccgcgag ccgggccctc cgcgcggtcc atcgcccact ggacgcccgc 120
cgcggccgga ccggttcaac ttctcatctt tggtctctct catatactat aggctgtttg 180
ctgtggttta gtcaaaaagc catgtagaat gcctgccttt tgaagaccac ttttaagg 238
```

<210> 48

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<400> 48

```
gccaccatct tggaacggga gccggagcag agtcgactgg gagcgaccga gcgggccgccc 60
gccgcccgcca tgaaccccgga atatgactac ctgtttaagc tgcttttgat tggcgactca 120
ggcgtgggca agtcatgcct gtcctgcggt tttgctgatg acacgtacac agagagctac 180
atcagcacca tcggggtgga cttcaagatc cgaaccatcg agctggatgg caaaactatc 240
aaacttcaga tctgggacac agcgggccag gaacggttcc ggaccatcac ttccagctac 300
taccgggggg ctcattggcat catcgtggtg tatgacgtca ctgaccagga atcctacgcc 360
aacgtgaagc agtggctgca ggagattgac cgctatgccca gcgagaacgt caataagctc 420
ctggtgggca acaagagcga cctcaccacc aagaagggtg tggacaacac cacagccaag 480
gagtttgtag actctctggg catccccttc ttggagacga gcgccaagaa tgccaccaat 540
gtcgagcagg cgttcatgac catggctgct gaaatcaaaa agcggatggg gcctggagca 600
gcctctgggg gcgagcggcc caatctcaag atcgacagca cccctgtaaa gccggctggc 660
ggtggctggt gctagsaggg gcacatggag tgggacagga gggggcacct tctccagatg 720
atgtccctgg agggggcagg aggtacctcc ctctccctct cctggggcat ttgagtctgt 780
ggctttgggg tgcctggggc tccccatctc ctctggccc atctgcctgc tgccctgagc 840
cccggttctk tmagggtccc taaaggagga cactcagggc ctgtggcagg cagggcgagg 900
gctgcttggt ctgttgccct taagtgaatt tccaaangc 939
```

<210> 49

<211> 1771

<212> DNA

<213> Homo sapiens

<400> 49

```
tctgaggtc ctggggagtc ggtgggaacg acaccagaag ctcagatgaa gactggccca 60
tttgacagag actccaacca gctgtggaac atcagcgccg tcccttcctg gtccaaagtg 120
aaccaggggt tcatccgcat gtataaggcc gagtgcctgg agaagttccc tgtgatccag 180
cacttcaagt tcgggagcct gctgcccac catcctgtca cgtcgggcta ggaggggcca 240
agccgaagag ccaccagggc cacagttcct gtgcctgcct tccccacccc agcagtggcc 300
cctccccatc cctccctctc gttcgtcccg tttgatgaga ggctgtttac tggggtgggg 360
tggcgagatg ggcttgaggg ggctcagagc ataaggcttc agggcccaag ttgggagaag 420
tgaccaaagt gtagccagtt ttctgagttc ccgtgtgcta gactggccag aagagagggt 480
ctggggcctg gtcactcggc cactctctcc tgtttctggc ctcttctccc ttcactcccc 540
```

```

tccagtctgg ttttgagagc aggggctgtt ctgcagcacc kcagggaagg gaggagagat 600
acctgctgct tccattgctt ttcccttcct ggagtcgatg cctttctaag gggtggagct 660
gctcccttgca ggggcgggtc agtttcccag gccatgccgg ggtggccatc tatgctaggg 720
ctggaagctg aggtctggcc ccagctgtgg gctgggggtg ggtgggtggg gtcgggtggg 780
ggagaggcct tagctgtcct ggctgggtgcc cctcccaggc tccttttcac cctgccccct 840
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tggaagctgc cctttgggtg ggtgctgggc tcctgggagg gccagatga tggggtgagg 1020
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cctgggtgat ggggtggccc agaaggtggc agtcccacac cttgtcctcc cacctccctg 1260
aactgtccat tgcttttata ggggtgaggta agwgacagcc tccaagccc aggccttggc 1320
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cctagggtctg ttctgggccc tggtctttac aggtctgtcc cccaggcctg cccttctcca 1440
ctgccccctc ctgtgtctgg gtccacacac ccttcaggaa gggggagcac tgagaagcac 1500
agcacagggg ctgagcctgg gatccggtga tggcttgggc agaggctggg tcaggagtcc 1560
caaaggctcag tgacagtctc tcagaagagg ccagcgtcc acctctctcc cagggccaga 1620
cacccttccc tggctcccc atccccctat ggctcccagc cccttgacc ctcattgctg 1680
ttcagattaa agcctctgtt ttgcacctgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaattt t 1771

```

<210> 50

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 50

```

gggtcgaccc acgctccgc tcgctccggg atcgcccgcg ctagagacgc atagcgctct 60
aatcgctcgc acgcaccggc cctcgctcgc tcgcccgtcc gtgccgcgc cgcccagccc 120
accgccaccc tttgcagcca tgtccaccag gtcygtgtcc tcgtcytcct accgcagatg 180
ttcgggggcc ccggcaccgg nagcggncgg agctccacgc gcataacgtg accagtccac 240
ccgcacctac agcctgggca gcgcctgcgc cccagcacca gccgcagcct ctamamctcg 300
tccccgggcg gcgcgtatgt tcacggctcc ttccgcggtg cgccctgcga anatgttgcc 360
cggcgcttgc gcttgcctggc aggattccgt ggaattt 397

```


<210> 51
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1629)
<223> n equals a,t,g, or c

<400> 51
gccccacgct ccgccccacgc gtccgccccac gcgtccgcct ctccagccct tctcctgtgt 60
gcctgcctcc tgccgcccgc accatgacca cctccatccg ccagttcacc tcctccagct 120
ccatcaaggc ctccctccggc ctggggggcg gctcgtcccg cacctcctgc cggtgtgtctg 180
gcggcctggg tgccggctcc tgcaggctgg gatctgtgg cggcctgggc agcaccctcg 240
ggggtagcag ctactccagc tgctacagct ttggctctgg tgggtggctat ggcagcagct 300
ttgggggtgt tgatgggctg ctggctggag gtgagaaggc caccatgcag aacctcaatg 360
accgcctggc ctctacctg gacaagggtgc gtgccctgga ggaggccaac actgagctgg 420
agggtgaagat ccgtgactgg taccagaggc agggcccggg gcccgcccg gactacagcc 480
agtactacag gacaattgag gagctgcaga acaagatcct cacagccacc gtggacaatg 540
ccaacatcct gctacagatt gacaatgccc gtctggctgc tgatgacttc cgcaccaagt 600
ttgagacaga gcaggccctg cgcctgagtg tggaggccga catcaatggc ctgcgcaggg 660
tgctggatga gctgaccctg gccagagccg acctggagat gcagattgag aacctcaagg 720
aggagctggc ctacctgaag aagaaccacg aggaggagat gaacgccctg cgaggccagg 780
tggtgtgtga gatcaatgtg gagatggacg ctgccccagg cgtggacctg agccgcatcc 840
tcaacgagat gcgtgaccag tatgagaaga tggcagagaa gaaccgcaag gatgccgagg 900
attggttctt cagcaagaca gaggaactga accgcgaggt ggccaccaac agtgagctgg 960
tgcagagtgg caagagtgag atctcggagc tccggcgac catgcaggcc ttggagatag 1020
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accgctactg cgtgcagctg tcccagatcc aggggctgat tggcagcgtg gaggagcagc 1140
tggcccagct tcgtgcgag atggagcagc agaaccagga atacaaaatc ctgctggatg 1200
tgaagacgcg gctggagcag gagattgcca cctaccgccg cctgctggag ggagaggatg 1260
cccacctgac tcagtacaag aaagaaccgg tgaccacccg tcaggtgctg accattgtgg 1320
aagaggcca ggatggcaag gtcattctct cccgcgagca ggtccaccag accaccgct 1380
gaggactcag ctaccccggc cggccaccca ggaggcagg angcagccgc cccatctgcc 1440
ccacagtctc cggcctctcc agcctcagcc cctgcttca gtcccttccc catgcttctc 1500

```
tgccctgatga caataaagct tgttgactca gctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanttn 1620
gggggggggnc ccccc 1635
```

<210> 52

<211> 1780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1780)

<223> n equals a,t,g, or c

<400> 52

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ccgccgccgc cgccgccgcc ggagctctgt agtatggcat cgaggagaat ggagaccaa 60
cctgtgataa cctgtctcaa aaccctcctc atcatctact ccttcgtctt ctggatcact 120
ggggtgatcc tgctggctgt tggagtctgg ggcaactta ctctgggcac ctatatctcc 180
cttattgccg agaactccac aaatgctccc tatgtgctca tcggaactgg caccactatt 240
gttgtctttg gcctgtttgg atgctttgct acatgtcgtg gtagcccatg gatgctgaaa 300
ctgtatgcca tgtttctgtc cctgggtgtc ctggctgagc tcgtagctgg catttcaggg 360
tttgtgtttc gtcattgagat caaggacacc ttctgagga cttacacgga cgctatgcag 420
acttacaatg gcaatgatga gaggagccgg gcagtggacc atgtgcagcg casctgagct 480
gctgtgggtg gcagaactac accaactgga gcaccagccc ctacttcctg gagcatggca 540
tccccccag ctgctgcattg aacgaaactg attgtaatcc ccaggatcta cacaatctga 600
ctgtggccgc caccaaagt aaccagaagg gttgttatga tctggtaact agtttcatgg 660
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gcatgctgct ggcctgctgt ctgtcccggt tcatcacggc caatcagtat gagatggtgt 780
aaggagaagt ctttcaagaa tgacggaata agagacctgt tttaaaaagg aactgcagca 840
atctttgaaa gacttccaaa gaatgttaga gcacagtaca taatacactt gccctgctcc 900
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tgccacacac ctttaagtag ataagcagac gatagttatc tgttcttttg acttaattctc 1260
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gaaactgaac ttgaggtggc ctcttgctt gttacatacc tgggtatgtg taggcagttt 1440
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ttcttgtgaa ggccatgata ttttgttttt ccccaattaa ttgctattgt gttattttac 1560
tacttctctc tgtatttttt cttgcattga cattatagac attgaggacc tcatccaaac 1620
aatttaaaaa tgagtgtgaa gggggaacaa gtcaaaatat ttttaaaaga tcttcaaaaa 1680
taatgcctct gtctagcatg ccaacaagaa tgcattgata ttgtgaacat ttgtgatata 1740
tgtattaata aatagagcaa ttacaagcaa aaaaaaatgn 1780
```

<210> 53

<211> 490

<212> DNA

<213> Homo sapiens

<400> 53

```
aattcggcag agaattttca tgagtcgcct tcaaaactct cgtgtagggg tgacaatgtg 60
gggggggtgg ggatccagct tattctttta ttttcaagtc cattcttggg gctgggtggg 120
aggcaggaga ataccctccc ctaagccctt agtgtgtgcc gagcttgctt tgtgatgttg 180
gcaggggagg ggagacctgg gtggtgactg agttcccttt atcaaaccct tcaatgggca 240
caaaattgag tgcttgattt taggttttat ttttttatga atgtccaaat ctgtgtttcc 300
ccctgccctc ccagactgtg tggccagtgg aaagtgtctg gtttgtgttc atctctccct 360
catttctgga gcagggcctg agaccctgcc acatctccta tgctctgcat ccacgcctct 420
tttgacatt aaaggttgat tgatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa                                         490
```

<210> 54

<211> 1944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1308)

<223> n equals a,t,g, or c

<400> 54

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ctgggcagtg ttggccgctg gcggagcgct ggggcagcat gaagtgcctg gtcacgggag 120
gcaacgtgaa ggtgctcggc aaggccgtcc actccctgtc ccgcacggg gacgagctct 180
acctggaacc cttggaggac gggctctccc tccggacggt gaactcctcc cgctctgcct 240
atgcctgctt tctctttgcc ccgctcttct tccagcaata ccaggcagcc acccctggtc 300
aggacctgct gcgctgtaag atcctgatga agtctttcct gtctgtcttc cgctcactgg 360
cgatgctgga gaagacggtg gaaaaatgct gcatctccct gaatggccgg arcagccgcc 420
tggtggtcca gctgcattgc aagttcgggg tgcggaagat camaanctgt ccttcmagga 480
ctgtgagtcc ctgcaggccg tcttcgaccc agcctcgtgc ccccatgc tccgcgcccc 540
agcacgggtt ctgggggarg ctgttctgcc cttctctcct gactggctg aagtgacgct 600
gggcattggc cgtggcgag gktcatcctg gcantaccac gaggaggagg cagacagcac 660
tgccaaagcc atggtgactg agatgtgcct tggagaggag gattccagc agctgcaggc 720
ccaggaaggg gtggccatca ctttctgcct caaggaattc cgggggctcc tgagctttgc 780
agagtcagca aacttgaatc ttagcattca ttttgatgct ccaggcaggc ccgccatctt 840
caccatcaag gactctttgc tggacggcca ctttgtcttg gccacactct cagacaccga 900
ctcgcactcc caggacctgg gctccccaga gcgtcaccag ccagtgcctc agctccaggc 960
tcacagcaca cccaccccg acgactttgc caatgacgac attgactctt acatgatcgc 1020
catggaacc actataggca atgagggtc gcgggtgctg ccctccattt ccctttcacc 1080
tggcccccag cccccaaga gccccggtcc ccactccgag gaggaagatg aggctgagcc 1140
```

```
cagtacagtg cctgggactc cccacccaa gaagttccgc tcactgttct tcggctccat 1200
cctggcccct gtacgctccc ccagggccc cagcctgtgc tggcggaaga cagtgaaggt 1260
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tggccctgaa ctactgacgt tcctacctct tatttctcat tgagcctcag gctatactcc 1560
agctggccaa ggctggaaac ctgtctccct caggctcacc ttcctaagga aaatgtcata 1620
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gaagtcctgg gcatgcatct gggacccccg tggagctgac aagttttcct tgctttcctg 1740
atactctttg gcgtgactt ggaattctaa gagccttgga ccgagtggtg tggctagggg 1800
tgccctggct gggggccggg gccgagactc ccaagcggst ctgtgcagaa gagctgccag 1860
gcagtgcttt agatgtraga cggaggccat ggcgagaatc cagctttgac ctttattcaa 1920
gagaccagat gggtttgccc cagg                                     1944
```

<210> 55

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 55

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cccccgtagc cagtaccggg tccgcgcctg tccccgaaac ttgcacccc gtogaactct 60
cgcgagagcg ktatctgctg gtcgggacgt gcggaggctc tcactttccg tcatggcgct 120
gaaggtagcg accgtcgccg gcagcgccgc gaaggcgtgc tcgggccagc ccttctctgc 180
cgtccctggg aggttctagc cgcccacgag gtcccctcga ggaacatctt ttcagaacaa 240
acaattcctc cgtccgctaa gtatggcggg cggcacacgg tgacctgat cccaggggat 300
ggcatcgggc cagagctcat gctgcatgtc aagtccgtct tcaggcacgc atgtgtacca 360
gtggactttg aagagggtgca cgtgagttcc aatgctgatg aagaggacat tcgcaatgcc 420
atcatggcca tccgccggaa ccgcgtggcc ctgaagggca acatcgaaac caaccataac 480
ctgccaccgt cgcacaaatc tcgaaacaac atccttcgca ccagcctgga cctctatgcc 540
aacgtcatcc actgtaagag ccttcaggc gtggtgacct ggcacaagga catagacatc 600
ctcattgtcc gggagaacac agagggcgag tacagcagcc tggagcatga gagtgtggcg 660
ggagtgggtg agagcctgaa gatcatcacc aaggccaagt ccctgcgcgt tgccgagtat 720
gccttcaagc tggcgagga gagcgggcgc aagaaagtga cggccgtgca caaggccaac 780
atcatgaaac tgggcgatgg gcttttcctc cagtgtctga gggaggtggc agcccgytac 840
cctcagwtca ccttcgagaa catgattgtg gataacacca ccatgcagct ggtgtncggg 900
ccccagcagt ttgatgtcat ggtgatgcc aatctctatg gcaacatcgt caaacaatgt 960
ctgcgcggga ntggtcgggg gcccaagctt gttg                                     994
```

<210> 56

<211> 328

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<400> 56
gggtcgaccc acgcgtccgc ccacgcgtcc ggatgacttc attgccaaag ttgttcaaag 60
gtagccttgg ccctttttca tctgagtcgc atttagagat gtataaagaa tggtgttgag 120
tanggcgcgg tggctcacgc ctgtaatccc cacacnttgg gaaggccgan gcaggcggat 180
cacgaggtca gaagattgag accattctgg ctaacatggt gaacccccat ctctactaaa 240
aatacaaaaa ttagtcaggc gcgatggcgg gcacatgtag taccagctac tcgggaggct 300
gatgcagaag aataacttgg aacctggg 328

<210> 57
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (710)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1206)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1218)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1264)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1311)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1446)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1467)
 <223> n equals a,t,g, or c

<400> 57
 cggcacgagg ggtggtgtgg gtgtgttttag aaaaaagatg cattcctgaa gatctctggt 60
 gctgaagggc ctcgagttcc ttccagagac tgtatttgac acacttttagg tacacacaaa 120
 cgaatggtat cacatgcaat attttaatgg agcaatggga gaggtctttt gaaatgggggt 180
 ttgcactcttt ttgtaacatt ttgatttctc tgggtgcctta ttccacttg atgctggcac 240
 tcacataccc acaagaagct gacacagaag tcagccttag gcgtggggac atatgggtga 300
 tgtttgagca tgcagggggcc atggggagtt tgggtgtcagt tgggtggagaa gggactagat 360
 ggcactctctt agccgaggcc aacaggaact gcacaagtcc attatagtca aagtttagcaa 420
 ttttgatacg taaacacaat acttcattct tcctcatctg agctttcctt ccttcttcct 480
 tttctatctc tacotttctca taaagggtgct gctgctgctg ctaagggtgcc cggagtccag 540
 aatgtccatt aatcactcag gcacgagcct ggcactgcc cgtcagcccc cagcatgacc 600
 aaacccaggt ttctcttgct tggggctgag aactgtcaga tttttctcat caaaaatggt 660
 ttccaaggaa tcagtggatt acagtttttc tgcattgaaa atgcacttn aaaaaataaa 720
 ttaaagctcc agactgttta aaatatacag agggagcagg ggaaagttaa gcatgtgcta 780
 gtgtctgaac ccagttcagt ttatctccag ttgaaacgat atacactata ttatgtataa 840
 atgtatacac acttctctata tgtatccaca tatatatagt gtatatatta tacatgtata 900
 ggtgtgtata tgtgcatata tacacacatg cacataacaa aatcagatgc tcattacaaa 960
 tccagatgct cattacaaaa ccagatgcta cacaacagc agcagaggaa acaagggttg 1020
 actcttgcaa cagatcacaa aaaataaaaa cagctacttg cagtgacttt ggtcatttct 1080
 gtatgttcat aaagaatgga tttgtaacna ggaaaanaag gaccagtgtt agtgaaaagg 1140
 gaagatgggg cgaaccatct tgatccgatg cgaatccgta atggtctata tacatttcat 1200

cagtantcat ntagtcangt gattgattca gttctgctat gaaacattgt aacacgtacc 1260
cacnactgac aactactcgt gagcgttcat taggagtgac ctaactttgc ntgcctgctc 1320
atgggacgag ctcccttaggt ggagataccg gggaatagag aaagatgcac gtctctgctg 1380
tgtcgcgtgc tttgaggggc ggtctttacc ttccgtgttg gagtcctccc tgagtccggc 1440
gctggntgcg ggacacggcc cttctcngtg tcccaggcgc tgcctcatt 1489

<210> 58
<211> 1283
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1263)
<223> n equals a,t,g, or c

<400> 58
aggtaatttg aattgagaga gagtaagtga cttgctgnaa aaaggggttaa tcaacagcag 60
agctgggatt tgaaccata actctgtcaa agcctccact cctaactcct gttcatgctc 120
ctgtggagaa aatgcttgta gtaacatatt ttaaattgtac taacaagacc agtcatgggm 180
aaatgtttct gagacaaatc tctagtttat gattttaaac agtacgtttt cttacgtgac 240
gaaaacaaaa agtgtgttaa tttgttccca gtgggtgaag ttatttgcca acaattttac 300
tgtttctctt catctgttta taggatttct ctgcctcttc caaacttttc ctccctgaac 360
ctgaggggta agcattttat ttcccttag gaaaaacgct agctgcttgt aaccactgtg 420
tttatgtcaa agcattcatt ttttttagga tatctgaaaa aatgccatat aagaaaaam 480
tctataaaac atctatwatt ttcgaaccca agtacactct tgcattctaw gctttaagtt 540

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aaatgcaaan tcctttttcc ttcttcctgc tgcaagtact atctcatcct gatgctcaag 600
agtgtcaggg cctgggtttc caaacagaga ctaccctaaa attatttggc gagtagtact 660
ttacacaatt gcctctcccc cacaaatcat aattgtttca gtaaaatggg tacttggttt 720
ttccaagaaa aaactcgttt ttactcattt ttggcctgtt tgtttattta gaaactaatc 780
tggtattcact ccctctgggt gataccact caaaaaggac acttctgatt aagacggttg 840
aaactagaga tggacaggtt atcaacgaaa cttctcagca tcacgatgac cttgaataaa 900
aattgcacac actcagtgcg gcaatatatt accagcaaga ataaaaaaga aatccatata 960
ttaaagaaac agctttcaag tgcctttctg cagtttttca ggagcgcaag atagatttgg 1020
aataggaata agctctagtt cttaacaacc gacactccta caagatttag aaaaaagttt 1080
acaacataat ctagtttaca gaaaaatctt gtgctagaat actttttaaa aggtattttg 1140
aataaccatta aaactgcttt tttttttcca gcaagtatcc aaccaacttg gttctgcttc 1200
aataaatctt tggaaaaact maaaaaaaaa aaaaaaaaaa mngggggggg gcccggggtn 1260
ccnccggggg gcccaagttt tac 1283
```

<210> 59

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 59

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agaaggagcg cggggaggac gtaccttggt agatgcgagc cggccaacag cttgcaagca 60
tgctccgctg gacccgagcc tggaggctcc cgcgtgaggg actcggcccc cacggcccta 120
gcttcgcgag ggtgcctgtc gcaccagca gcagcagcgg cggccgaggg ggcgccgagc 180
cgaggccgct tccgctttcc tacaggcttc tggacgggga ggcagccctc ccggccgctc 240
tctttttgca cgggctcttc ggcagcaaaa ctaacttcaa ctccatcgcc aagatcttgg 300
cccagcagac aggccgtagg tgctgacggg ggatgctcgt aaccacgggt acagccccca 360
cagcccagac atgagctacg agatcatgag ccaggacctg caggaccttc tgccccagct 420
gggcctggtg ccctgcgtcg tcgttgcca cagcatggga ggaagacag ccatgctgct 480
ggcactacag aggccagagc tggtggaacg tctcattgct gtagatatca gccagtgga 540
aagcacaggt gtctcccact ttgcaaccta tgtggcagcc atgagggcca tcaacatcgc 600
agataggctt gccccgctcc cgtgcccga aactggcgga tgaacagctc agttctgtca 660
tccaggacat ggccgtgcgg cacacttgct tcaatnaacc tggtagaggt agacgggcgt 720
tttcgtgttg gaggtggaa 740
```

<210> 60

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<400> 60

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actttnnccc ctcccccttt cctttcccgt ctcacgcgcc aggccgcttg cacatgcgca 60
ttaggtagaa agcctcgctc ttgtcccca tctgtcgttc acacgaactc aagccttttg 120
cattcggcag ccaatagaat ctaaganatg gcggaaaaat gattccgcct cgggagctaa 180
acttgattgg cagttagct aaccaatcga gaacgccatt tgtamccctt ggcaggcamc 240
gagctccgtc gtctcgtttc cggcggtcgc gcgctctttt ctccggacgg gagaggccgt 300
gtagcgtcgc cgttactccg aggagatacc agtcggtaga ggagaagtcg aggttagagg 360
gaactgggag gcactttgct gtctgcaatc gaagttgagg gtgcaaaaat gcagagtaat 420
aaaactttta acttgagaa gcaaaaccat actccaagaa agcatcatca acatcaccac 480
cagcagcagc accaccagca gcaacagcag cagccgccac caccgccaat acctgcaaat 540
gggcaacagg ccagcagcca aaatgaaggc ttgactattg acctgaagaa ttttagaaaa 600
ccaggagaga agaccttcac ccaacgaagc cgtctttttg tgggaaatct tcctcccgac 660
atcactgagg aagaaatgag gaaactatct gagaaatatg gaaaggcagg cgaagtcttc 720
attcataagg ataaaggatt tggtttatc cgcttggaac cccgaaccct agcggagatt 780
gccaaagtgg agctggacaa tatgccactc cgtggaaagc agctgcgtgt gcgctttgcc 840
tgccatagt catcccttac agttcgaaac cttcctcagt atgtgtccaa cgaactgctg 900
gaagaagcct tttctgtgtt tggccaggta gagagggtg tagtcattgt ggatgatcga 960
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gagcccatgg accagttaga tgatgaagag ggacttccag agaagctggt tataaaaaac 1140
cagcaatttc acaaggaacg agagcagcca cccagatttg cacagcctgg ctcccttkga 1200
gtatgaatat ngccatgcgc tgggaaggca ctcatgaga tggagaaagc agcctggggg 1260
gacaagaagt gaagactcct gtntccaaaa a 1291

```

<210> 61

<211> 971

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (856)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 61

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ctgcagtacc ggtccggaat tcccgggtcg acccacgcgt ccgggtctgt ggtcctctct 60
cggctcctcg cggctcgcgg cggccgacgg ttcctgggac acctgcttgc ttggcccgtc 120
cggcggtcga gggcttctct gctgcgtctc cggttcgtcg gacgggaaga agggctgggc 180
cgtcccgtcc cgtcccatc ggaaccccaa gtcgcgccgc tgaccgctcg cagggcgaga 240
tgagcgcgga cgcagcggcc ggggcgcccc tgccccggct ctgctgcctg gagaagggtc 300
cgaacggcta cggcttccac ctgcacgggg agaagggcaa gttgggccag tacatccggc 360
tggtggagcc cggctcgcgg gccgagaagg cggggctgct ggcgggggac cggctggtgg 420
aggtgaacgg cgaaaacgtg gagaaggaga cccaccagca ggtggtgagc cgcattccgc 480
ccgcactcaa cgcctgctgc ctgctggtgg tcgacccga gacggacgag cagctgcaga 540
agctcggcgt ccaggtccga gaggagctgc tgcgcgccca ggaagcgcg ggcaggccg 600
agccgccggc cccggagcag cgcgagcttc ggcctcggct ctgtaccatg aagaagggcc 660
acaagagcca cccggagcag cgcgagcttc ggcctcggct ctgtaccatg aagaagggcc 720
ccagtggcta tggcttcaac ctgcacagcg acaagtccaa gccaggccag ttcattccgt 780
cagtggaccc agactccccg gctgaggctt cagggtccg ggcccaggat cgcattgtgg 840
aggtgatgct tctcgtttct ctctctatct gaactgcccc caaccnctgc agattagcag 900
caccttgggg cagccatcat accatcatgg ggtttgatta gcccacgggc attagccaac 960
ctgggaggtt g                                     971

```

<210> 62

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 62

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gggtcgaccc acgcgtccgg cagaaatgaa ggaccacctg ccaagacgaa gagctgggtg 60
ggaccacgc tgcattttca tcgaaagagt gaacatctag tgggactgaa agttctttgt 120
tgtttcagat tgtagagtgt gattgatgga attggtctgt ggaaattgca ttgtttttat 180
ttctttatgt aatcagttta agtaataggg ggtatatata atcgtaagta ttttaggggtg 240
ggaggggcta ttaagtaatt aagtgggtgg ggttagttta aaagtttagc tgatatgtat 300
tagataactc tataagtgga catgtgtact tacttgtagt cttttaccct atgattgcta 360
cccttaacga tttcaaataa actcagaggg aactgcaggg agatcaaacc atttagggca 420
aattggacat gaataaaact ctagtgggaa aaagtccaag ggtgattgaa taaataattt 480
aactttgcc tggttattaa gtccagggtc cccagattgt ggagcagagc cttggagagt 540
acaggatgaa ggagatagat gcncccttga cttgccggga atgaaattgg attaatgnaa 600

```

ggatggtaaa taattcca

618

<210> 63

<211> 1138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 63

tctatanatc atganaggaa anggtancng acagtacggt cggattcccg ggtcgaccca 60
cgctccgatg acttcacccc tctggagatc ctctggacct tctccatcta cctggagtca 120
gtggccatct tgccgcagct gttcatggtg agcaagaccg gcgaggcgga gaccatcacc 180
agccactact tgtttgcgct aggcgtttac cgcacgctct atctcttcaa ctggatctgg 240
cgctaccatt tcgagggctt cttcgacctc atcgccattg tggcaggcct ggtccagaca 300
gtcctctact gcgatttctt ctacctctat atcaccaaag tcctaaaggg gaagaagttg 360
agtttgcccg catagccccg gtcctctcca tctctctcct cggcagcagc gggaggcaga 420
ggaaggcggc agaagatgaa gagctttccc atccagggtg gactttttta agaaccacc 480
tcttgtgctc cccatccccg ctccctgccg gtttcagggg gacagtggag gatccaggtc 540
ttggggagct caggacttg gctgtttgta gttttttgcc ttttagacaa gaaaaaaaaa 600
tctttccact cttagtttt tgattctgat gactcgtttt tcttctactc tgtggcccca 660
atttttataa agtgtttttg agtgtcctat gggccggggc aggtccaag atcttttccc 720
ttccccaggc ccctcggctc cctcccagat cccaccccca gccccactgg ttgccaaaca 780

ctaaatctgc cgacacccat ctgccccacc tcctgccatg gccatgaacc gcgaccccca 840
ctaaatttct agattgggga tagggagaaa gggaggccca ggaaggcttc ccctgatttt 900
ttttcatagt aatttttttc ccagagttt gaattttttg gtcttctcct gggttttttg 960
caaattaggg gggcccgagg ctcaagtgcg ggaagggggc tggcccgagg atcccatggc 1020
tctcacacca tgtttttgta cagaactgat ggttgaatct ttgttctctt gaaataaaca 1080
gaagaaaatg aaaccttaaa aaaaaaaaaa aaaaaaaaaa acncgggggg gggcccg 1138

<210> 64

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 64

tgctcatcca gaggagctca ccacagtcac tgcgacagac tgccacactc accctggcct 60
ggcctcagag aagttgagct actggcctca gttcacacag agcagatgga ggaagagctg 120
gcactaggac ccagggggca ggggggagcc tccctggctg gaagggatgg caggagcgct 180
ggtgcaggta gctatggagc tctggccaac tctgcctggg gaggtcccag gaaggtggcg 240
tcagcatctg cagccgcgtc gacgttgctg gagcctccgc ggaggaccca ggagagccgg 300
actaggacca gggccctggg cctccccaca ctccccatgg agaagctggc ggcctctaac 360
agagncccaa ngggcttggg cggtcctggg ncgtgaaaat gttcaagtgc ccgattga 418

<210> 65

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2836)

<223> n equals a,t,g, or c

<400> 65

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aagaaaccgc ccattacaca cccaggtaca ccagcagagg aaacttataa cctcgggagg 60
caggctccttc ccctcagtgc ggtcacatac ttccagaaga gcgaccagg gctgctgcc 120
gcacctgcc ctcagagcgc ctctgtcgct gggacccttc agaactctct ttgctcaca 180
gttaccaaaa aaaaaagagc caacatgttg gtattgctgg ctggtatctt tgggtccac 240
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acggtagatg catcagtagg tctttggaaa aactgtacca acattagctg cagtgcacgc 360
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atcttttact ttttttctgt gacatttatg tctcatgtaa tttgcattac tctggtggat 2640
tgttctagta ctgtattggg cttcttcgtt aatagattat ttcatactat ataattgtaa 2700
```

```

atattttgat acaaatgttt ataactctag ggatataaaa acagattctg attcccttca 2760
ttgtgtgaat gtttttttct aaaaaaatg tggagaaata tggataatta tgacatttat 2820
ccctcattaa agcngn                                     2836

```

<210> 66

<211> 2305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1973)

<223> n equals a,t,g, or c

<400> 66

```

aaacgttccc ggtccttcct gaaccaagct gtggaccctc gtaagcaacc cggacaccga 60
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tgccaaggag gtgctgcca agtacttcaa gcacaacaac atggccagct tcgtgcggca 180
gytcaacatg tatggcttcc ggaaagtggc ccacatcgag cagggcgkcc tggtaagcc 240
agagagagac gacacggagt tccagcacc atgcttcctg cgtggccagg agcagctcct 300
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gtgcatggac tccaagctcc tggccatgaa gcatgagaat gaggctctgt ggcgaggagt 480
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```

```

ctctggttgt cacaggacca ccaggaaccc ccttcccaag gtgttcgcac tcggacaggt 2220
gatgcggggc gggcacactg tctttctgcc agagccagca ccctgtgtag gcacggggaa 2280
cgggagcctg tcccgtagct ttagg                                     2305

```

```

<210> 67
<211> 1907
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1221)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1655)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1896)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1904)
<223> n equals a,t,g, or c

```

```

<400> 67
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cgggcaagac ccatgaggcc gagatcgtgg aaggggagaa ccacacctac tgcacccgct 180
ttgttccgcg tgagatgggc acacacacag tcagcgtgaa gtacaagggc cagcacgtgc 240
ctgggagccc cttccagttc accgtggggc ccctagggga agggggagcc cacaagggtcc 300
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cagggtgacta cgaagtctca gtcaagttca acgaggaaca cattcccagc agccccttcg 540
tggtgcctgt ggcttctccg tctggcgacg cccgccgcct cactgtttct agccttcagg 600
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gcggccccta ccacattggg ggcagcccct tcaaggccaa agtcacaggc ccccgctctg 1140
tcagcaacca cagcctccac gagacatcat cagtgtttgt agactctctg accaaggcca 1200
cctgtgcccc ccagcatggg nccccgggtc ctgggcctgc tgacgccagc aaggtggtgg 1260

```

```

ccaagggctg gggctgagca aggcctacgt aggccagaag agcagcttca cagtagactg 1320
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ggagatcctg gtgaagcacg tgggcagccg gctctacagc gtgtcctacc tgctcaagga 1440
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tctttggttc tgggaggggt gagggatggg ggtcctgtac acaaccaccc actagtcttc 1800
ttctccagcc aagaggaata aagttttgct tccattcwma aaaaaaaaaa aaaaaaaaaa 1860
tygggggggg kccgktaacc caattggcct ttaagngggg ggtntta 1907

```

```

<210> 68
<211> 815
<212> DNA
<213> Homo sapiens

```

```

<400> 68
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aaaaatagca gttgtgtttc aatttacctt attctagcaa ttwaagtwgg taacatacaa 180
atagttatwc tgatacaaga tattaaagac atactcagtt ttaatcaact acctctcaag 240
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ctgaacgggt gccgtataa tttgtgacat ctggcaagat ttccctttat gtatatattt 360
taacaatccg cttggacacg aacaaagcca cacttctaac tgcttctggc gaactgattt 420
tatttttaat ttttttcaat aaagatattc ttagatactg aaagaaatag ttaatgagtt 480
tgcatttgtg cttgagaaaa tttggctcaa gtccatttgg ctgtagtgtc aacgatgttt 540
ccagtagtgt ttagatttgg tgtcttcaaa ggtagttgat taaaaccaag tgtgtcttta 600
atatcttgta tcagaataac tttgtatgtt accaacttaa attgctagaa taaggtaaatt 660
tgatacacia ctgctatttt taatttagaa ctttgacctt atttgggttt tcaaaacccat 720
tttggtact tgattcttt atgctgttgt ttatttcaat aaaaaattca cacctaaatg 780
tatacttact aaaaaaaaaa aaaaaaaaaa actcg 815

```

```

<210> 69
<211> 1150
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (23)

```


<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<400> 69

```

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tggggtggcc cttggagctg tgccaaagct acacctcggg gtcctagtct caactggcct 180
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gtccatcac ccagtggta tggtggcat catcgccatc tacggcctgg tggggcagt 360
cctcatcgcc aactccctga atgacgacat cagcctctac aagagcttcc tccagctggg 420
cgccggcctg agcgtgggccc tgagcggcct ggcagccggc tttgccatcg gcatcgtggg 480
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cctcaccgcc gggcccgctg ccctgcgcgg agctgtgtcc aataaagttc ttggatgtga 1080
aaaaaaaaa aaaaaaaaaa aaaaaaraaa aaaaaaaaaa aaaraaaaaa aaaaaawaa 1140
gaaaaaaaaa                                     1150

```

<210> 70

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 70

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caaagtctat tctccagttg ccagagtcag agctgggtga atactctctg gggggctaca 180
gtatttcatt tctgaaacag ctcatgtctg gcaaaactcca ggagtcggtt ccagaccctg 240
agctgattga tctgatatac tgtggccgga agcttaaaga tgaccanacc ttgacttcta 300
cggatttcaa cctggctcca catccatgtt ctncggaant cctg 344
```

<210> 71

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 71

```
tcgaccacag catccgaaga tgttcttgct gccccttccg gctgccgggc gagtcgtcct 60
ccgacgtctg ggcgtgaaca gttctgggca cggggtctcg ccgccgcaga catgacgaag 120
ggtcttggtt taggaatcta tagtaaagac aaagaagatg atgtgccaca gtttacgagt 180
gcaggagaga atttcgataa attggtgtct ggaaagttga gagaaatttt gaacatatct 240
ggacctcttc tgaaagcagg caaaaccgga accttttatg gtctgcatga ggacttcccc 300
agcgtggttg tggtcggcct cggcagaaag gcagctggag tcgatgacca ggaaaactgg 360
cmtgaaggca aagaaaacat cagagtcgcc atgcaacggg gtgcaggcag gttccaagac 420
ctgnaatct cttctgtgga aggtggat 448
```

<210> 72

<211> 2825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<400> 72

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tcatgaggtt gctcgcgcgc ccccgccgat cgccatggat cggatgaaga agatcaaacg 120
gcagctgtca atgacctcc gaggtggccg aggcatagac aagaccaatg gtgcccctga 180
gcagataggc ctgcatgaga gtggtggtgg tggcggcagt gaccctggag agggcccccac 240
```

```

acgtgctgct cctggggaac ttcgttctgc acggggccca ctcagctctg caccagagat 300
tgtgcacgag gacttgaaga tggggtctga tggggagagt gaccaggctt cagccacgtc 360
ctcggatgag gtgcagtctc cagtgagagt gcgtatgcgc aaccatcccc cagcgaagat 420
ctccactgag gacatcaaca agcgccatc actaccagct gacatccggc tgctgaggg 480
ctacctggag aagctgaccc tcaatagccc catctttgac aagccctca gccgccgct 540
ccgtcgtgtc agcctatctg agattggctt tgggaaactg gagacctaca ttaagctgga 600
caaactgggc gagggtacct atgccaccgt ctacaaaggc aaaagcaagc tcacagacaa 660
ccttgtggca ctcaaggaga tcagactgga acatgaagag ggggcaccc tgcaccgcat 720
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cagagacagg gacacagccc ctatttgga ccctgatcat caccagacc tgggattggc 2280
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cctgaaatgg ggtgggaggg caggggtggg agccctccta gtgggtttgg ggggttgggt 2760
tcctgaatgc accataatcg ctgtatgaaa tattaataag tctaaagtga aaaaaaaaaa 2820
aaaaa 2825

```

<210> 73

<211> 510

<212> DNA

<213> Homo sapiens

<400> 73

```

atgtacgaga gcgcattccaa agaacctagt agagaaaggt attctaacca ctgagaagca 60
gaatttccts ctatttgaca tgactactca tccagtgacc aatacaacag agaaacagcg 120
actagtgaag aaacttcaag atagtgtact agagcgggtg gtaaatgacc ctgagcgat 180
ggacaagcga acactagcac tcctgggtgct agccactcc tctgatgtgc tagagaatgt 240
cttctcctct ctgacagatg acaagtatga tgtggcaatg aatcgagcca aggacttagt 300
agaactggac cctgaagtgg aagggaacaa gccyagtgcc acagaratga tctgggctgt 360
gctggcagcc tttyaataaa tcytaaagcc rgyrggtggg tttctyctt tccctgctg 420
gctggtgact gttcagagac mccwactga gttttgtgtg atgasatgtt ttccatcatt 480
ttttccttyc ttgaatcaga cttgtgaatt 510

```

<210> 74

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 74

```

gggtcgaccc acgcgtccgc tccacttaaa attcaacttc tgcttggttc atctgattct 60
ttcaaggctt taaatgttaa atgaaggggt aaaataggaa ggtatttaag taattagcag 120
gcctcctggg tcttgataac ttcagtgtt ctgggagctg cccggttggc caccagtctc 180
tgtggaatcc aggggcctct tcccaatatg gatttgacca gcacttcaat tagtgagttt 240
ccatkagcat cttagcatta ctctttaata cagacgcctt attttccagg gtttatgaaa 300
gtttaagtga caacctatga ttgcaggaa agactgttga gaagctgtt ttccagtggg 360
aaagttgggt ccaggagatg angggagnct tgaaatagat cctgggatgg aaacataaag 420
tggncagcca gattcccatc atgggctncc ccataaaa 458

```

<210> 75

<211> 377

<212> DNA

<213> Homo sapiens

<400> 75

```

gtcctggaac caccatcaagc tcagctcctg tgtccagctc gcttctctgc tggactcctt 60
gatttttttt ttaatcattg ttgatttttg agcagtaacc aggctttttt ttccagatgt 120
tagtccacac ctattcatcc atggaccggc acgatgggtg cccgagccac agctcgcggc 180
tctcccagct gggctcgggtg tcccaggac cctactcgag cggcccgccg ctgtcccaca 240
ccccgtcgtc ggacttccag ccgccctact tcccacccc ctaccagccg ctcccctamc 300
amcagagcca ggacccctac tcccacgtca amgamcccta tccctgaacc cactgcacca 360
gccccagcaa catccct                                     377

```

<210> 76

<211> 2070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2068)

<223> n equals a,t,g, or c

<400> 76

```

tcatgaatgg gaatcctggn cccaagaact ccgcttgcn ggcagaggac ctgcagctga 60
ggacctatag cggtgtgccc atgacctnca gtgtatccca gggcaccgcc gtgtgtaata 120
taaagattgg ctgacaaaaa tgtcaggaaa acatgatgtt ggagcttaca tgctaatagt 180
taagggcgct aatcgtactg aaacagtcac gtcttttaga aaacgagaaa gtaaagtgcc 240
tgctgatctc ttaaagcggg ccttcgtgag gatgagtaca agccctgagg ctttcctggc 300
gctccgctcc cacttcgcca gctctcacgc tctgatatgc atcagccact ggatcctcgg 360
gattggagac agacatctga acaactttat ggtggccatg gagactggcg gcgtgatcgg 420
gatcgacttt gggcatgcgt ttggatccgc tacacagttt ctgccagtcc ctgagttgat 480
gccttttcgg ctaactcgcc agtttatcaa tctgatgtta ccaatgaaag aaacgggcct 540
tatgtacagc atcatggtac acgcactccg ggccttcgcg tcagaccctg gcctgctcac 600
caacacccatg gatgtgtttg tcaaggagcc ctcccttgat tggaaaaatt ttgaacagaa 660
aatgctgaaa aaaggagggt catggattca agaaataaat gttgctgaaa aaaattggt 720
ccccgacag aaaatatgtt acgctaagag aaagtttagc ggtgccaatc cagcagtcac 780
tacttgatgat gagctactcc tgggtcatga gaaggccct gccttcagag actatgtggc 840
tgtggcacga ggaagcaaag atcacaacat tcgtgcccaa gaaccagaga gtgggctttc 900
agaagagact caagtgaagt gcctgatgga ccaggcaaca gacccaaca tccttggcag 960
aacctgggaa ggatgggagc cctggatgtg aggtctgtgg gagtctgcag atagaaagca 1020

```

```

ttacattggt taaagaatct actatacttt ggttggcagc attccatgag ctgattttcc 1080
tgaaacacta aagagaaatg tcttttgtgc tacagtttcg tagcatgagt tttaatcaag 1140
attatgatga gtaaattgtg atgggttaaa tcaaagataa gggttatagta acatcaaaga 1200
ttaggtgagg tttatagaaa gatagatata caggcttacc aaagtattaa gtcaagaata 1260
taatattgta tcagctttca aagcatttac aagtgtgca agttagttaa acagctgtct 1320
ccgtaaatgg aggaaatgtg gggaagcctt ggaatgccct tctggttctg gcacattgga 1380
aagcacactc agaaggcttc atcaccaaga ttttgggaga gtaaagctaa gtatagttaa 1440
tgtaacattg tagaagcagc ataggaacaa taagaacaat aggtaaaagct ataattatgg 1500
cttatattta gaaatgactg catttgatat tttaggatat ttttctaggt tttttccttt 1560
cattttattc tcttctagtt ttgacatttt atgatagatt tgctctctag aaggaaacgt 1620
ctttatttag gagggcaaaa attttggcca tagcattcac ttttgctatt ccaatctaca 1680
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gaaatgaatt cctcatttgg aggaaaaaaa gcatgcattc tagcacaaca agatgaaatt 1860
atggaataca aaagtggctc cttcccatgt gcagtccctg tcccccccg ccagtcctcc 1920
acacccaaac tgtttctgat tggcttttag ctttttgttg tttttttttt tccttctaac 1980
acttgtattt ggaggctctt ctgtgatttt gagaagtata ctcttgagtg tttataaag 2040
tttttttcca aaaaaaaaaa aaaaaaantt

```

2070

<210> 77

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 77

```

ctcgccctcc tgactcttcc tgcaggtggc tcaggaagga ttcagcctgg ccacttggct 60
aggactctgc cagcacccat ctgagactga cctcttccgg gcctttggac actatgacct 120
tgatgctgcc cttcaggcag gaaacagggc tgggtgcctt tttcacctgc atggccagct 180
tccttccctg gcagtggaga gggcagccaa caggttctaa tgtcagagcc atcctttacc 240
agggtggcct gcttgtccct gtcttgctg ccacatcact ctactttttg gaaggccatg 300
gctgattaaa gaagtctctg tagtttccca agcaaagtgg aatctagaaa cagtgaaaaa 360
agttcagata actttgaatt gcattcaaga agtacacttc tttcccattg tccgtggctc 420
ttggagtctc cgtgatgcca ggctagagtc tgattatata ataattcaaa atggtaactc 480
ccaaggtaat gctttcttcc atttcatcag gttcttttat cccactgca cccctcccc 540
ttctcccttg cctatctgga tggcttctca gaagctcggc cctagtcctc cctgccttgg 600
cgggggcccag agccactna ctgctgaggc agcactgctc tcgtcagctg tgttgctttt 660
amccaagtgt cttcagaggg ttatgagtta gagtagctgg cctggggaga ggggtgcctcc 720
ctgggtttga tctttagggt ctgactttct gcagagaaga tgttttacag atgtgtcaaa 780
gctgatgtaa tgtggttggg ggaggaaatc cagacccaaa gtgtttgtca gctgggtgta 840
caactgccta tgtgactctc tgtcttaaaa tgatttctgt ctgtgctgcg aaacaaagac 900
aagggtgaggt gtttttcttt tttgtaataa tataaagctg tgtgtttctg attggatgat 960
tcactatgtg cattgttccy cctaagtgct tttagta

```

997

<210> 78

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 78

```
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aggtgcaggg ggctggcaac gaaaatgagc ctgcgcaggc cgacaagagc caccgggagc 120
agcgcragct tcggcctcgg ctctgtacca tgaagaaggg cccagtgagg tatggcttca 180
acctgcacag cgacaagtcc aagccaggcc agttcatccg gtcagtggac ccagactccc 240
cggctgaggc ttcagggtcc cgggcccagg atcgcatgtg ggaggtgaac ggggtctgca 300
tggaggggaa gcagcatggg gacgtggtgt ccgccatcag ggctggcggg gacgagacca 360
agctgctggt ggtggacagg gaaactgacg agttcttcaa gaaatgcaga gtgatcccat 420
ctcaggagca cctgaatggt cccctgcctg tgcccttcac caatggggag atacagaagg 480
agaacagtcg tgaagccctg gcagaggcag ccttgagagag cccagggcca gccctggtga 540
gatccgcctc cagtgcacac agcgaggagc tgaattccca agacagcccc ccaaacagg 600
actccacagc gccctcgtct acctcctcct ccgaccccat cctagacttc aacatctccc 660
tggccatggc caaagagagg gccaccaga aacgcagcag caaacggggc ccgcagatgg 720
actggagcaa gaaaaacgaa ctcttcagca acctctgagc gccctgctgc caccagtgga 780
ctggcagggc cgagccagca ttccacccca cctttttcct tctccccaat tactccccctg 840
aatcaatgta caaatcagca cccacatccc ctttcttgac aaatgatttt tctagagaac 900
tatgttcttc cctgacttta gggaagggtga atgtgttccc gtcctcccgc agtcagaaaag 960
gagactctgc ctccctcctc ctactgagt gcctcatcct accgggtgtc cctttgccac 1020
cctgcctggg acatcgctgg aacctgcacc atgccaggat catgggacca ggcgagaggg 1080
caccctccct tcctccccc a tgtgataaat ggggtccaggg ctgatcaaag aactytgact 1140
gcagaactgc cgytctyagt ggacagggca tytgttatga cagacctktg gcagacacgt 1200
cttgttttca ttgatttttg ttaagagtgc agtattgcag agtctagagg aatntatgtt 1260
tccttgatta acatgatttc ctggttggtta catccanggc aggcagtggc tcagctttaa 1320
atttggtttc cta 1333
```

<210> 79

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 79

```
caatggggct gaggtgtgtt ccaactgaggc taagatgact gcctttcctg attggccttg 60
gcttttccat acattgtgtg acccttgccc tatgacctt tggtgacct taccggaagc 120
catgacgaca gcagcctttt gccattagac gcagggtgat ggtgaggatt ccaagggtta 180
```

```

gacaaaactg gttaatctga actaggtgac tgttaccttg cgtgttttgt ggccaaacca 240
ccacaaaaaa cctcacactg tgatgtaagt acttagtgta aaactagtaa acatttttgt 300
aaaatgtaga aatgcacgta atcagttaag ttttatattt tacaatgttc tgtaaaataa 360
aacttagcga ggtaaatcga ataaaggagc agtcactctc taacagattg taggagaggt 420
ttagttggat ttagtctatt tgacttgccc ttaatttaat tttatggcaa atcacaaatg 480
tgtcgaaggt ttagcaatat aatagcaaag tcctactcca gtaaataaaa gttgggtatgt 540
tngtacttaa ctttcaaaag                                     560

```

<210> 80

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3201)

<223> n equals a,t,g, or c

<400> 80

```

cggtacgcgt gggtcgcggt cttcggggggt ctgcgctcgc ggctgcctgg actcagcagg 60
ccctgggacc atgtcccgcg ccctgcggcc accgctcccg cctctctgct ttttcctttt 120
gttgctggcg gctgccggtg ctcgggccgg gggatacgag acatgcccca cagtgcagcc 180
gaacatgctg aacgtgcacc tgctgcctca cacacatgat gacgtgggct ggctcaaaac 240
cgtggaccag tacttttatg gaatcaagaa tgacatccag cacgccgggt tgcagtacat 300
cctggactcg gtcactctctg ccttgctggc agatcccacc cgtcgcttca ttacgtgga 360
gattgccttc ttctcccgtt ggtggcacca gcagacaaat gccacacagg aagtcgtgcg 420
agaccttggt cgccaggggc gcctggagtt cgccaatggt ggctgggtga tgaacgatga 480
ggcagccacc cactacggtg ccacgtgga ccagatgaca cttgggctgc gctttctgga 540
ggacacattt ggcaatgatg ggcgaccccg tgtggccttg cacattgacc ccttcggcca 600
ctctcgggag caggcctcgc tgtttgcgca ratgggcttc gacggcttct tctttgggag 660
ccttgattat caagataagt gggtagcgat gcagaagctg gagatggagc aggtgtggcg 720

```



```

ggccagcacc agcctgaagc ccccgaccgc ggacctcttc actggtgtgc ttcccaatgg 780
ttacaacccg ccaaggaatc tgtgctggga tgtgctgtgt gtcgatcagc cgctgggtga 840
ggaccctcgc agccccgagt acaacgccaa ggagctggtc gattacttcc taaatgtggc 900
cactgcccag ggccggtatt accgcaccaa ccacactgtg atgaccatgg gctcggactt 960
ccaatatgag aatgccaaca tgtggttcaa gaaccttgac aagctcatcc rgctggtaaa 1020
tgcgcaaggc aaaaggaagc agtgtccatg ttctctactc caccctcgct tgttacctct 1080
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cccgtcagc cagacggcgg cgcgcttcca ggtcatcggt tataatcccc tggggcgga 1560
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ggcctcagtt caatggaagg aggtggatgg ttaggtctgc tgggatgggc cctccaagcc 3060
caagcctcct gctccggggg cagaccagac tctgactctc ctcttgggct gctgccatta 3120
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aaatttanaa aaaaaaaaaa naa 3203

```

<210> 81

<211> 1710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1424)

<223> n equals a,t,g, or c

<400> 81

```

aagagccgaa cggataagag aagaggaggg cgcgkatggc gtcgggggcgc cccgaggagc 60
tgtgggaggg cgtgggtggg gccgctgagc gcttccgggc ccggactggc acggagctgg 120
tgctgctgac cgcggccccc cgcaccacc ccgcccgggc ccctgtgcct atgctgccc 180
tggtcgagga gccctggcgg aggcagcgcg ccgttgccct cagacatcg cactggccc 240
cagggctgcc actgctgctc ggctcctgc gccccacca gcaccacagc caccagtc 300
cacaccagc ccacccggc ctacctggc cagagaggac aacgaggagg acgaggatga 360
gccacagag acagagacct ccggggagca gctgggcatt agtgataatg gagggctctt 420
tgtgatggat gaggacgcca ccctccagga ccttcccccc ttctgtgagt cagacccga 480
gagtacagat gatggcagcc tgagcgagga gaccccgcc ggcccccca cctgctcagt 540
gccccagcc tcagccctac ccacacagca gtacgccaag tccctgcctg tgtctgtgcc 600
cgtytggggc ttcaaggaga agaggacaga ggcgcggtca tcagatgagg agaatgggc 660
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ccgtcccaca ctacgcccc gccccactcc cggggcctgc taatctgagg ccgatccggg 900
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cttggtccct gacccctca gggatggccc caaactgtcc ctgncctctg caccctctt 1440
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tggtaccagc tcccgcctc cgccccccac ctccacaggt gccttaaagg gccctcgtca 1560
cccaagggtg gggcaggggc cctcactctc cggccctggg gtgggggaga gagtggggg 1620
ttgggggatc ggcagttggg aggggcgctc tgagattaaa gagttttacc tctgagataa 1680
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1710

```

<210> 82

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 82

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aattcggcag agctgagccc cgggctgtgc agtccgacgc cgactgaggc acgagcgggt 60
gacgctgggc ctgcagcgcg gaggagaaag cagaacccgc agagtcctcc ctgctgctgt 120
gtggacgaca cgtgggcaca ggcagaagtg ggccctgtga ccagctgcac tggtttcgtg 180
gaaggaagct ccaggactgg cgggatgggc tcagcctgta tcaaagtcac caaatacttt 240
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<210> 83

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 83

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ccaacatgtc ccgtggttcc agcgcgggtt ttgaccgcca cattaccatt ttttcacccg 180
```

```

agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggt ggccttacat 240
cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca 300
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttggtg 360
tgatgaccgg aatgacagct gacagcagat cccaggtaaa gagggcacgc tatgaggcag 420
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ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga 540
ttttaattgg tatagatgaa gagcaaggcc ctcagggtata taagtgtgat cctgcagggt 600
antactgtgg ggtttaaagc cactgnagcg ggagttaaac aaactggngt caaccagctt 660
ccttgaaaaa aaagtgga 678

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<210> 84

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 84

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aggcarcgtc ggagggtctc aggagcgccc tgtctgaag gcagggtgcag catggctggc 180
ttccccagag gagactcttc gcccagtacg tcctgatctg ctgccgggcc accactgggc 240
tgcaccatct cacacagttg gctcttcag aggtgcctat tcatccaaca gggcaagggc 300
tgtcagcaga gtccgtcaga cgtgagaagg gtgggagcgg cggactgtga acgctggtag 360
ggccccggcg ctccgagaaa gtcccagttt cgcggtcgcc ctccctacc acgcttcggg 420
cttccgggtg catagctgtg ggatccggaa gtaaaaacac aagccccgcs cccrrgaact 480
cgggaagccg gcgakaagtg tgaggccgcg gtagggncgc atcccgtcc ggagagaagt 540
ctgagtcgca cagctctgca ggcccgcgga antcgacagc gtcatggcag agcagggtggc 600

```

```

cctgagccgg acccaggtgt gcgggatcct gcgggaagag cttttccagg gcgatgcctt 660
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gaagatctac cccaccatct ggtggctgtt ccgggatggc cttctgcccg aaaacacctt 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 2803

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<210> 85

<211> 1278

<212> DNA

<213> Homo sapiens

<400> 85

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gcccgtgtag gccctggcct tcatcatcag gagttttggt ggggaagtgt cctgggacaa 120
atctttgtgc attggggcca cctatgacgt cacagactcc cgcacaccc atcagattgt 180
cgaccggcct gggcagcaga cctcagtcac tggcaggtgc tacgtgcagc cccagtrgg 240
gtttgactca gtgaacgcca ggctccttct ccccgaggca gactacttct ctgggggtgca 300
gctgccccca cacctttcac cctttgtgac cgagaaggaa ggagattacg ttccacctga 360
gaagctgaag ctgctggctc tgcagcgggg agaggaccca ggaaacctga atgagtcaga 420

```

```

agaggaggag gaagaggacg acaacaacga aggtgatggt gatgaagagg gagaaaatga 480
ggaggaggag gaagatgcag aggctggttc agaaaaggag gaagaggccc ggctggcagc 540
cctggaagag cagaggatgg aggggaagaa gcccagggtg atggcaggca ccttgaagct 600
ggaggataag cagcggctgg cccaggagga ggagagtggg gccaaagcgc tggccattat 660
gatgatgaag aagcgggaga agtacctgta ccagaagatc atgtttggca agaggcgaaa 720
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cacacagttg gacccgtgat tctcaggtg ctgtgatggg gtgagggtag ggggagcatt 1200
tgttattaaa tgactggact tttgtgcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaccca cgcgtccg                                     1278

```

<210> 86

<211> 2585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2573)

<223> n equals a,t,g, or c

<400> 86

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accccgaggt gtcccccttg gctcgattcc caggaaactc ctcctcaacc cctttggcat 120
cagcattaca agccaaagcc tcaatccagg gccctttcgt actcctaaag caggagataag 180
gacctatcac ttccgctcca ccttggccga gttccagggt ataatgggca ggaagagagg 240
aaatgtggaa aagggtcggg tggcaaagct gggaccagat ggtgcagctt tcctgcagat 300
tcccgcagaa gagatccctg cctacatgtc tgtgcatcga ctcctgagga agctgctaag 360
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gtcagagtca actgcaccaa tccaggcacc agatattgct ggatgagtac tgggctctac 600
atacctggaa ggcaaattat agaagtctca ctgcctgaag ctgctgcctc tgccgacctg 660
aagatacaga ttggctgcca cacagatgac ctgaccaggg ccagcaagct tttccgaggc 720
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cttaatttta attccatctc cagagagatt tgagggtgat ttaagatgaa aaacaggata 2520
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cccccc
```

<210> 87

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 87

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gggtcgaccc acgcgtccgc atgaatttgt cacaatctta tcaataatca ttactctgtt 60
ttttatattt caactaaaag tatcaaaata tagctttcca gaaaaccccg aaccaaagtc 120
actgactaca tcaaagtcta ctacaccttg agaaaacaaa tgaacgaaaa tctattttcc 180
tcattcatta cccaacaat aataggactc cctatcgtaa ttattatcac tatgtttcca 240
agcattatat tcccatcacc taccgactr aatcaataat cgactscatc tccattccaa 300
caatgattag tgcactgaac atscaaaaca aatrttgatc catgccacaa ccaaaaagga 360
caaactggag cccgatatt gatan 385
```

<210> 88

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1088)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2497)
<223> n equals a,t,g, or c

<400> 88
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gccgcagtga aagctaagca cttggctgct gttgaggaaa ggaagatcaa atctttggtg 120
gccctgctgg tggagacca gatgaaaaag ttggagatca aacttcggca ctttgaggag 180
ctggagacta tcatggaccg ggagcragaa gcactggagt atcagaggca gcagctcctg 240
gccgacagac aagccttcca catggagcag ctgaagtatg cggagatgag ggctcggcag 300
cagcacttcc aacagatgca ccaacagcag cagcagccac caccagccct gcccccaggc 360
tcccagccta tcccccaac aggggctgct gggccaccgc caktccatgg cttggctgtg 420
gctccagcnt ctgtagtccc tgctcctgct ggcagtgggg ccctccagg aagtttgggc 480
ccttctgaac agattgggca ggcaggggtca actgcagggc cacagcagca gcaaccagct 540
ggagccccc agcctggggc agtcccacca ggggttcccc ccctggacc ccatggcccc 600
tcaccgttcc ccaaccaaca aactcctccc tcaatgatgc caggggcagt gccaggcagc 660
gggcacccag gcgtggcggg taatgctcct ttgggtttgc cttttggcat gccgcctcct 720
cctcctcctc ctgctccatc catcatccca tttggtagtc tagctgactc catcagtatt 780
aacctccccg ctctcctaa cctgcatggg catcaccacc atctcccgtt cggcccgggc 840
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gcgaccacca ccatgccatc ttccttgccct ctggggccgg ggctcggatc cggcgcagcc 960
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```

attaagattc cagggagagc tctggggata gaacagggcg cagattccat ctctcccca 1620
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attcgagttc attcgacta ataatccctc ctgcggcttc ctcatgttg ctgttttagg 1740
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```

<210> 89

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 89

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tcatcactgc cggcagttgg tctcgccca gtttccatt gatcacttca cacacatctt 120
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tggaagtaaa ggaacaggt gatccaggag ggcagctggg gctggcagga gaccctcggc 240
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accagctcta ttatgaaggg gagctgcagg cctgtgctga tgtcgtggat cgagaacgct 480
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gcaaagatga gcgtgaaggc aacagcccat cctcttcaa ccctgaagag gctgccacag 600
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gttcagtaga agaattccaa ggccaagaac gaagcgtcat cctcatctcc accgtgcgaa 840
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tgaagacaca gcaccagcc ttctgcacc agccaagcct taactgcctg cctgaccctg 1260
aaccagaacc cagctgaact gccctccaa gggacaggaa ggctggggga gggagttag 1320
aaccgaagcc attyacccck cctccctgct ggggagaatg acacatcaag ctgctaacaa 1380

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ttgggggaag ggaaggaag aaaactctg

1409

<210> 90

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<400> 90

agaacagtac ctccctctca ctgaggaaga actagaaaaa gaagcaaana aagttgaagg 60
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tactccctg gcctaccagc aggtctctag cagggttaaa gaagctaagc aaaaaagcca 180
acagaccatt tctcagctcc attctactgt tcacctgatt gaatttgcca ggaagaatgt 240
gtatagtgcc aatcagaaaa ttcaggatgc tcaggataag ctctacctct catgggtaga 300
gtggaaaagg agcattggat atgatgatac tgatgagtcc cactgtgctg agcacattga 360
gtcacgtact cttgcaattg cccgcaacct gactcagcag ctccagacca cgtgccacac 420
cctcctgtcc aacatccaag gtgtaccaca gaacatccaa gatcaagcca agcacatggg 480
gggtgatggca ggcgacatct actcagtgtt ccgcaatgct gcctccttta aagaagtgtc 540
tgacagcctc ctcaacttcta gcaaggggca gctgcagaaa atgaaggaat ctttagatga 600
cgtgatggat tatcttggtta acaacacgcc cctcaactgg ctggtaggtc ccttttatcc 660
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ggagaccagc cgatctgagc ataaaaactca ttaaacctgc ccctatcact agtgcattgt 780
gtggccagac agatgacacc ttttggttatg ttgaaattaa cttgctaggc aaccctaaat 840
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cctttgaatt caataaaatt cactgcagga tagaccagtt aaaaaaaaaa aaaaaaaaaa 1260
aaaagggggg ccgcccagg grtcccccg agggggggcc cagctttacg cgtggcntgc 1320
gacgtccaaa gcncnc 1336

<210> 91
 <211> 787
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (677)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (725)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (742)
 <223> n equals a,t,g, or c

<400> 91
 ggcacgagct gtggggctgt gggcctgtta ccccaggcg cacagctccc tccggctggg 60
 cccaggctcc actcagtgc acggctcaag tctacatgga gctgcagggc ctggtggacc 120
 cgcagatcca gctacctctg ttagccgccc gaagtacaag ttgcagaagc agcttgatag 180
 cctcacagcc aggaccccat cagaagggga ggcagggact cagaggcaac aaaagctttc 240
 ttccctccag ctggaattgt caaaactgga caaggcagcc tctcacctcc rgcagctgat 300
 ggatgagcct ccagccccag ggagcccgga gctctaactc atcatcccca tcagttttcc 360
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 cgtcagagac tatgtggtcc atcgccttca ttgtgtaaat gaggacacag actggcttgg 480
 tcgcagtgc tgtggtgtcc ttgagatgct cacattactg cccggcctgc ctcccacctg 540
 gaagtctggg aatgaggaga ttgagataaa cttttgaaat cccaaacatg tctgtttatg 600
 gctctttggt cccctttgct cccagtgggt acttttgtgc ttctgagttg tcccttgaga 660
 gcttggtctg ggaaanagg aaggaagggg tcctcactgg aggaagagga acctttctaa 720
 gtcanggta aggggaatgg gnacagttgg ttcccgttc taacctcctt ttctggactg 780
 acaagtg 787

<210> 92
 <211> 1657
 <212> DNA
 <213> Homo sapiens

<400> 92
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 ggcctccatt gttcgtgttt taaggcgcca tgagggtga cagaggccgt ggtcgtggtg 120
 ggcgctttgg ttccagagga ggcccaggag gagggttcag gccctttgta ccacatatcc 180
 catttgactt ctatttgtgt gaaatggcct ttccccgggt caagccagca cctgatgaaa 240
 cttccttcag tgaggccttg ctgaagagga atcaggacct ggctcccaat tctgctgaac 300
 aggcattctat cttttctctg gtgacaaaaa taaacaatgt gattgataat ctgattgtgg 360
 ctccagggac atttgaagtg caaattgaag aagttcgaca ggtgggatcc tataaaaagg 420
 ggacaatgac tacaggacac aatgtggctg acctggtggt gatactcaag attctgccaa 480

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cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga gcacaggatc 540
cttctgaagt ttaaccatg ctgaccaacg aaactggctt tgaaatcagt tcttctgatg 600
ctacagtga gattctcatt acaacagtgc caccaatct tcgaaaactg gatccagaac 660
tccatttgga tatcaaagta ttgcagagtg ccttagcagc catccgacat gcccgctggt 720
tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg aaggacttga 780
ggattcgttt tcctggcttt gagccctca caccctggat ccttgacctg ctaggccatt 840
atgctgtgat gaacaacccc accagacagc ctttggccct aaacgttgca tacaggcgct 900
gcttgcatg tctggctgca ggactgttcc tgccaggttc agtgggtatc actgaccct 960
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gctatacagc tcagactctc gtccgaatcc tctcacatgg tggctttagg aagatccttg 1080
gccaggaggg tgatgccagc tatcttgctt ctgaaatatc tacctgggat ggagtgatag 1140
taacaccttc agaaaaggct tatgagaagc caccagagaa gaaggaaaga gaggaagaag 1200
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gacattccct tcaactcctt tcctacccaa gggggaagac tggagcctaa gctgcctgct 1320
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taaactccat agaagtgtca ttccactggg ttttgatatt ggcttagctg ccagtctccc 1440
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ataatctcca actcctgaaa acccctctct caactaatac tttgctgttg aaatgttgtg 1560
aaatgttaag tgtctggaaa ttttttttc taagaaaaac tattaagta cttcctagta 1620
ggaaaaaaaa aaaaaaaaaa aaacycgagg gttttct 1657
```

<210> 93

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 93

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aattcggcac gaggggttct gcactaacag cctccaagcc ccctggcact tcttttgccc 60
tgagagtgtc ccaggggatt cagagtctcc agaaagatat ggctrggcca actctgttgc 120
ctacctrgcc tgaccagtc ggagcctgac atggtggagg gaaagggaga caagtggggc 180
tgactcgggt ccagaggcca gctaggaggg aaaccgcagc ttcctggggc ttgtgtgtga 240
agattcctga cttaggggtg gcttttgttt acaagatgca agaggggaaa cctgtccccg 300
actcatcgag acaacatgcc cagttatcag ggagtcctgt gtcacaaggt ctgtctctgc 360
cattgtaagc aagtgccttg ggcgagctgg cctctgcccc acagtctcat ctgtacaccg 420
acagggttga tgcctccctc acagggttga gaacaagagc cakttgcca attaaaanaa 480
aaan 485
```

<210> 94

<211> 764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 94

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ccccagccag tctgccctct gccatggggg gcggagagga cgaggaggag gccaccgact 60
atggaggggac ctacgtgccg actgccgggg aggccgtgcg ggggctagaa acagctctgc 120
grtggttgga gaaccaggac ccagagaggg tggggccact gaggttggtg cagttgcgct 180
cactcatcag catggcccgg angctggggg gcatcgggca taccacagca ggcccctatg 240
acgggtgtgtg accaggccas ccagtgacc tttctcctgc tgcacttga gggaggggac 300
atacacacag tctcccatct ctccctccct ccccttgggg tggcccaccg catgggtaca 360
gggggttcca ggaatccaaa tccagcatgg cttggaggag ctctgttggg gagaggtcgc 420
cctgcctcac tggcaccctg ggggcacagc tggaagagag gcctggccca tgctcctctc 480
agggcaggca catgtacggg gcatacaagg cacagcgct gttggaacag gtggctgtgt 540
tctgtctctg gccccctgc ggctngcctc cgccccctgca ccagtcacat gcactggacg 600
agggccgaaa ctctgtctct ctatcgagcc ctggtgctat gtggccccgg agccacagca 660
caatcatctc agtggcgaag cacaccactt gattctatct ttttttaaca cattaaatct 720
gtttttaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 764

```

<210> 95

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<400> 95

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atttaggtga cactatagaa ggtacgcctg caggtaccgt tccgnaattc ccgggtcgac 60
ccacgcgtgc catcatggcg caggatcaag gtgaaaagga gaaccccatg cgggaacttc 120
gcatccgcaa actctgtctc aacatctgtg ttggggagag tggagacaga ctgacgcgag 180
cagccaaggt gttggagcag ctcacagggc agaccctgt gttttccaaa gctagataca 240
ctgtcagatc ctttggcatc cggagaaatg aaaagattgc tgtccactgc acagttcgag 300
gggccaaggc agaagaaatc ttggagaagg gtctaaagggt gcgggagtat gagttaagaa 360
aaaacaactt ctgagatact ggaaactttg gttttgggat ccaggaacac atcgatctgg 420
gtatcaaata tgacccaagc attggtatct acggcctgga cttctatgtg gtgctgggta 480
ggccagggtt cagcatcgca gacaagaagc gcaggacagg ctgcattggg gccaaacaca 540
gaatcagcaa agaggaggcc atgcgctggt tccagcagaa gtatgatggg atcatccttc 600
ctggcaataa aattcccgtt tctatccaaa agagcaataa aaagtthtca gtgaaaaaaa 660
aaaaaaaaa aaaaaaaggg ggcccccttt tgggggtccc ctggggg 707

```

<210> 96

<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<400> 96
aacccttac tccctnccgt aatttttgta agcccttaaa ataanaaatn aaaaatycca 60
taacccccaa agaagaatcc ccccccacatt wagccttggt aagtaaatgc ctccctgaccc 120
caagcccgaa gatgcccccc attctctwag tgatggcggc gttaggggtt gagagaagg 180
aatttggtc aacttcagtt gagaggggtgc agtccagaca gcttgactgc ttttaaatga 240
ccaaagatga cctgtggtta gcaacctggg catcttagga agcagtcctt ggagaaggca 300
tgttcccaga aaggtctctg gagggacaaa ctcaactcagt aaaacataat gtatcatcat 360
gaagaaaact gattctctat gacatgaaat gaaaatttta atgcattggt ataattacta 420
atgtacgctg ctgcaggaca ttaataaagt tgctttttta ggctacagtg tctcgatgcc 480
ataatcagaa cacacttttt ttctctttt tcccagcttc aaatgcaaat tcatcattgg 540
gtcacttct aataactgca gtgtttcccg ccttgggctt gcagcagaaa aacctgacaa 600
catagtgttt gctaaggcag taatttagac ttaccttat ttgtgattac tgtagtgatt 660
gattgattga ttactattaa ctacaaggta taatttacta tcaccttatt taaattttat 720
gaattaattt gaatgttttt tacactaact aacttttccc aataaagtcc actatgaaac 780
cacgacaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 815

<210> 97
<211> 658
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 97

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catcattggc gcggggctgt cagcggccgg acgcggtcct ctacgccgc cactacaaca 60
tcccgggtgat ccatgccttc cgccgggccg tggacgacct tggcctggtg ttcaaccagc 120
tgcccaagat gctgtacccc gagtaccaca aggtgcacca gatgatgcgg gagcagtcca 180
tcctgtcgcc cagcccctat gagggttacc gcagcctccc caggcaccag ctgctgtgct 240
tcaaggaaga ctgccaggcc gtgttccagg acctcgaggg tgcgagaag gtgtttgggg 300
tctccctggt gctggtcctc atcggctccc accccgacct ctcttcctg cctggggcag 360
gggctgactt tgcagtggat cctgaccagc cgctgagcgc caagaggaac cccattgacg 420
tggacccctt cactaccag agcaccgcc agraggcct gtacgccatg gggccgytgg 480
ccggggacaa ctctgtgagg tttgtgcagg ggggcgcctt ggctgtkgcc agctccctgc 540
taaggaagga acagaaccac ctacatcgcc aacctgggtc cagcctraga ggaatacatc 600
ctctgatcga cctcaaatcc ggagttncct cttnncttgt caaatgacc gcccaata 658
```

<210> 98

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<400> 98

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aaaatggtag acctgacagt accggctccgg caattcccgg gatattgagc tgggggtttg 60
agactscct tagagataga gaaacagacc caagaaatgt gctcaattgc aatgggccac 120
atacctagat ctccagatgt catttcccct ctcttatttt aagttatgtt aagattacta 180
aaacaataaa agctcctaaa aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg 240
ggggcccg 249
```

<210> 99

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 99

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acggcttcaa ccgcagcttc tgcggccgca acgccacggt ctacgggaag ggcgtgtatt 60
tcgccaggcg cgctccctg tcggtgcagg accgctactc gcccccaac gccgatggcc 120
ataaggcggg gtctgtggca cgggtgctga ctggcgacta cgggcagggc cgccgcggtc 180
tgcgggcgcc ccctctgcgg ggtcctggcc acgtgtcctt gcgctacgac agcgccgtgg 240
actgcactct ccagcccagc atcttcgtca tcttccacga caccagggcg ctgcccaccc 300
acctcatcac ctgcgargca cgtgccccgc gcttcccccg acgaccctc tggretcccc 360
```

```
ggccgctccc cagacactta accgaagggg ccaccctctg gcctcctgct tcccaggctc 420
ccagctccgc acaggctgat gctccccgcc cccaactgtg gccgcctgag ctgtccccgg 480
ggasgccctg cctccctctg cgggctccag aaggcggtgt gggggatggc ggtcagcagc 540
ggccgagggg ggccgggcta ggtcccagcc tgggccgacc ccaccaccag gggtcagcag 600
agcccaggag gngacaccgy ccgccgcgcg ctcccagacc tcgcccagat cggctctgtt 660
gtttgaataa acgtgaacgt gaaccaggc ggaagggacc cgggaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 752
```

<210> 100

<211> 3059

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3059)

<223> n equals a,t,g, or c

<400> 100

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ggggtaaaac ccngaaaaa aactccanat tttaattaaa tggcctcctc ccttcccccc 60
ttctttcccc ccgtccccca actcccttct ctcgtcctct ttccccccnc ccctctccct 120
```


tttctcccca tctttcacct tcctaatttc agtgaaattg gagcgatttg aaattccaat 180
caaggttcga ttaagcccag agccatggac ccctgaaact ggtttggtta ctgatgcttt 240
caaactgaaa aggaaggagc tgaggaacca ttacctcaaa gacattgaac gaatgtatgg 300
gggcaataaa aatggtgttg tcttattgac agttgtgcag gaggtagcct ggtggttttc 360
aacctctaga attttaagcc tttgttgaac tgttagaatg taaggatat cattctaaag 420
atagagtaaa aagaaaacaa aaccaaaagt tattaaaatt gttgtccggt ttactttaac 480
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aaaaatattt aatggtgaac aaaataaatt ggagttggag tagaatgtag tttgaggaaa 660
tttgcagctt ccaatgcctc ttgtcttcct atttcagaag tttaaatatt aagcatgaca 720
gaaaatattg attaacacta ctcaaagcaa aagtgcctgca gggctttaaa attctcttcc 780
aaccatttat ctggaaggaa aaattcaata gtaataaat acmcaaaatc aaataatacc 840
ttagaaggta ttaagattat aattgttgca taggttagat atagagtcac tgtaatgttg 900
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tctgtgttta ttcaaactga aaagctgaga ccaagagcaa ggaaggtaaa aagttaacag 1140
gcaaacattt tctcttagaa aaggtgataa aatcataagt atttggaatt agaacccttk 1200
cacagcactg aacctgggaa agagatttaa actctgaatt tatctttgat aacagggatt 1260
gattttaaaa tgtacatgta ttaaattaca ttgttaattt aaggtctgtt tgctgttgct 1320
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aaatcttaat actgttattc tttgcacttt ttcttaatac ttttttatat atatgcata 1740
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tggtggtaaat aagggaaaaa tcaagtatta taaacaagaa tgaaggtttt tgtaaagatt 1920
tctgttcagc gttttgcaag gtaaaatttt aggcaagttt tccctgaagt tatgtgtatg 1980
tgagtattct cattcttccc aacttgcctt tgaagagtga aataccatta ttatcaagta 2040
gactactgtt cagcttttat tcctgcccctg ctgtttatcc cttaagaatg agtttcttag 2100
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aatgtttcta aggtaacaag atgagaacag ataaagattg tgtggtgttt tggatttgga 2820
gagaaatatt ttaattttta aatgcagtta caaattataa tgtattcata tttgtacttt 2880
ctgttaaaat gcattgattg agaattgttt agattttgtg tttattcttg atgaaaagct 2940
ttgtttgttc ttgtttttta gtttgcactc aaatcttaag aaataaatcc acccatgtta 3000
tcaaaaaaaa aaaaaaaanc ccgggggggg gcccgaacc aaatccnccc aaggggggnn 3059

<211> 1682
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c

<400> 101
 ggcacgagga tggawgcctg atgggggtgca gacacagatg gcaccccagg rntgtgccat 60
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 ctagtgggct cttcccagag tggcagagct gggggagaat ggagaacttg gcctcttatac 180
 gatgaattaa gcaacaatgt aactgggtctt gacttgtcat attcccccat gcaatcctag 240
 gtctgtattg ctcaatttta ggaagccttt gctactccat cagtaggttt agatttgagc 300
 ttttgagacc tggctatgga aaagaaagac acttgagaat ttagtggttg ggtctgtaca 360
 gatgatgcta cccaatttggt ctttgaagga tcaagtaaca ggttgaaaac tatttttata 420
 aaggtaatac tttttcagtt cccttcttcc ttccctctca atccactagc tttcatgttg 480
 ggcaaggaaa agttgaggaa ggatggctga tggatgatga aagctgtgtt aatgggatga 540
 ggaatgtgtg aaaagtatac acaaagggtt ctgaagctca agtcagagga gtgggaggtc 600
 tgatcattgt tgggtgaaaa acgtaagggtt attttgtgtt ttttaagttg ttttacaatt 660
 ctttcctggg gaaattattt ctggagggga aaaagatcca ttctacgtat ccttgtggag 720
 aaaagctaaa taacctttaa gaatgtgggt ggtattggag aaagaagatg aattatagct 780
 ccggagaatc aagatcttaa gtgaagcctt tctgttcaga tgtgatctat aaaaaatcat 840
 aatttgggga agttttaagc aaatctggct ttgtagtctt gatgttataa gtgactttgt 900
 gatcaaatcg tcaggcttgg gttcttgtta tagaatgctt ggtatagaaa aaccatgcca 960
 tcattaatgg ctaacaacac gtagggactt catgtcatgt caaagatagc tctttgcaag 1020
 tgccttgatt aaaccagaaa actgtcatcg ttttaaccaa atatctgaat ggtcatctgg 1080
 taactcatgg gtttttggcc tcataagatg gtccactctg tacacaggca ttcctcctgc 1140
 aataatgttg tatctttgag accgttgtca gtgtacacaa ctcacatcct tcatattgaa 1200
 ggtgactcat tttctgcac acttttttga tgtgatgctt gacgtgaggc ccgacactag 1260
 gattctcaat gcaagaatcc agtaccttgc acatagaagt agcaacccat cccttgccata 1320
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 gtattatact tgtttttgtg tgtgcataaa ttcattctgt aggatcttaa gaaaaagagt 1440
 ccagaaatgt tgcttctatt attgtgcaca accattgaga ggtgttataa gaatgcagtt 1500
 aattttaaca tgtgtgatgt gccatggtgg aaaagtacta tcggaataac tctgcagtga 1560
 cagaatttga agtttggtta gcatccatac ttttctactg taaatatttc actctcctct 1620
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 aa 1682

<210> 102
 <211> 938
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (30)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (812)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (913)
 <223> n equals a,t,g, or c

<400> 102
 cccacgcgtc cgtccgggtg ctgcgcgcgn gacctggacg cagagaagcc agagactttc 60
 gcttccggct gccgcaggct tcgctgggtgc aggttaagctc cgcacactct cggccgggtcc 120
 cgagtccgac tccctcaagg gtgacgcgag ctctgccctt taaccggaaa cgtctccctg 180
 ctacccccac ccccgcgag acgcagtgt gagcacacag ctaccggaca aagagtgtgac 240
 cccggagctg gagttatggc ggctacggag ccgatcttgg cggccactgg ggtcccgcg 300
 gcggtgccac cggagaaaact ggaaggagcc gggtcgagct cagcccctga gcgtaactgt 360
 gtgggtcct cgtgccaga ggcctcaccg cctgccctg agccttccag tcccaacgcc 420
 gcggtccctg aagccatccc tacgccccga gctgcggcct ccgcggccct ggagctgcct 480
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 gccccgccgg ctctagactc ggtcccga cgttccgcca gcgtttccgg cagttccgct 600
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 ggctgcggcc tgacatccgc accaaggagc agatcgtgga gatgctgggt caagagcagc 720
 tgctcgccat cctkcccag gcggctcggg cccggcggat ccgccccgc acggatgtgc 780
 gcatcactgg ctgagcgggt gagctgcggg cngccagggc cgggcgctct gtgcggactg 840
 gggccatgat cgggcccggg ggcctgagcc tgggacccca ccccggtgta atgaaaaatg 900
 agttttggca gcnaaaaaaa aaaaaaaaaa aagggcgg 938

<210> 103
 <211> 2012
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1993)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2002)
 <223> n equals a,t,g, or c

<400> 103
 gctggataat tccagcctgt tagctactca caggaacatg cagaattatt ggctccaggg 60
 agttttggag aaagaagggt tacgttttca aacttacaga taacagttga catcaatgct 120
 tctctttccc agaacaatct ggagtttgcc agaaaactct gtaaacagga gtcgtgctgt 180
 gtgtgaactg taaactcttc tctccaggcg tcgaggggac ctttgcttta ctttgagct 240
 gggctacatc agacgtgtgc attggaaaca taaacttctt taactgggaa aagaatgctt 300
 ctctgtcttc maaatarttc tgctatgtga catttttgcc atcatgaatt ttacatcagt 360
 gmtagctctt tgttttacgt gtttcattkg gcaggtcaca aaggctcttg gctaccacac 420
 atacgtgcat acacacacac acacacacac acacacacac acacactcat aaaggatttt 480

```

cttttctgct ttacctttaa ttttcagtct acttggtctg taatgaaagg tagagcctta 540
tttttgaact atatcccaac agaatcgaat ttccattttg ccaagaatta taaaaccctg 600
aggtttttaa attcagtttc ttttctgggg atttaacatg gaaggacttg gagggcaaat 660
ggscacgtga ttggaaargg gaaaaacaaw tcatttcatt taaaattatt caataaccat 720
tgccagcatt tgggattctg agtgctgttt atgaagccct ttcattgata taatttcac 780
tatctctcac aaggctgtaa gcaattccta tgtccatatg gcagtgagga aatggagatt 840
tgagcagggt aagggagttt tcacctggaa gctcttcttt ttttctcttc tgccacagta 900
rggtcatcag actgtcagcc ccagcactgg gagccgagta acacgcatgt tctcattaat 960
atccttttct catgttttta ttaaagatat atgcaagttg ccgaaagacg aaggaacttg 1020
cagggatttc atattaaaat ggtactatga tccaaacacc aaaagctgtg caagattctg 1080
gtatggaggt tgtggtggaa acgaaaacaa atttgatca cagaaagaat gtgaaaagg 1140
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ggccaacatc atatacctct tgaagaagaa ggagtcagcc atcgccaact tgtctctgta 1260
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actgctgggt tttatgtgaa cattcctatc aatccaaatt cctctggag tttcatgta 1500
tgctgttggt aggcaaatgt aaagtctaga aaataatgca aatgtcacgg ctactctata 1560
tacttttgct tggttcattt ttttccctt ttagttaagc atgactttag atgggaagcc 1620
tgtgtatcgt ggagaaacaa gagaccaact ttttcattcc ctgcccccaa tttccagac 1680
tagatttcaa gctaattttc ttttctgaa gcctctaaca aatgatctag ttcagaagga 1740
agcaaaatcc cttaatctat gtgcaccgtt gggaccaatg ccttaattaa agaatttaa 1800
aaagttgtaa tagagaatat ttttggcatt cctctaattg tgtgtgtttt tttttttgt 1860
gtgctggagg gaggggattt aattttaatt ttaaaatgtt taggaaattt atacaaagaa 1920
actttttaat aaagtatatt gaaagttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aa 2012

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<210> 104

<211> 1094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<400> 104

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tcctcctggg aagcctggcc tgcctncccc gcaaaagggtg tttttgcgct ggttcaatga 60
atagatgatg cagaggcccc attggagaca cgtgaatggc gtgtgcggcc atcagttccc 120
ggctgggggg caggtgttgc ttcggccccc gccctccggc cggcgtgtgc gagtgcgccc 180
ctggctgtga gtgttgaccg ttcctctccc ctgtacatag cmcgagccag tcctgagtgg 240
gtgactcctg agtgggtgac gcgcagacgg gatttctcag gtcatttgta tggtcgacat 300
gatggctgct gctttggctg ccaccacccc cgggcccagc ctgtctgaaa ttcagggttt 360
aggccgaaaa acccggtggg gaggggtggg gagccggagm tctgtggcgg ggctggaggg 420
ctgggggtgca ctttagtttg gggcgggacg ggagccgccg ttgtgactgg cgtggtctgg 480
ctgctgctcc cgaacggagg ggtcgggggt ggcttctggt gccctcagag cccagtgggt 540
ggctctgact cggctcccta ctccctgcac ccagctgggc gcacttgggg cctgcgggtc 600
gaatgtatcc ctccctcag ttttaacctg agctgccgaa cgcacagtgg gccggggggc 660
aggctggggg aagcggggcc caattacgga tcccgggagt tacaggtgcc gacgtgatgt 720
cgcttctctg gtgcccagct cccttctggt tctgagacta gctctggggg tggcgggggc 780

```

```
ccccamacgc tgctcccgcct ccaccctgcc cgtgctgctg ctctgtgcct gctgtcagag 840
ccctggtggg ggaggatgtg gccaccctga gaccggagg agacggggt ctgcctgggt 900
ttgcgagag cgccttatgg gtgtggtccg tccagacacc ttgtttcaag ggggatgggc 960
gtgagcgggc aagcagagca tccccaccgc tgagcaagaa ctttttcttg tttttaaac 1020
atcacgtcct catttcacat tggaataaag tgagttttg aaacctgcga aaaaaaaaaa 1080
aaaaaaaaa attc 1094
```

<210> 105

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 105

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agctcgtgcg cccgccgtgc cggctccggan attcccgggt cgaccacgc gtccgatctg 60
tcctgcacca tctgcctaatt tccttcctca cagtctgtag ccatctgata tcctagggga 120
aaaggaaggc caggggttca cataggcccc cagcagttt cccaggagt agagggatgc 180
gaggctaaca agttccaaaa acatctgccc cgatgctcta gtgtttggar gtgggcagga 240
tgagaaacag tgctgtttg ggggaaaaca ggaaatcttg ttaggcttga gtgagggtgt 300
tgcttccttc ttgcccagcg ctgggttctc tccaccagc aggttttctg ttgtgggtccc 360
gtgggagagg ccagactgga ttattcctcc tttgtgatc ctgggtcaca cttcaccagc 420
cagggctttt gacggagaca gcaaataggc ctctgcaaat caatcaaagg ctgcaaccct 480
atggcctctt ggagacagat gatgactggc aaggactaga gagcaggagt gcctggccag 540
gtcggctctg actctcctga ctctccatcg ctctgtccaa ggagaaccgc gagaggctct 600
gggctgatcc agaggttact gctttatatt cgtccaaact gtgttagtct aggccttagga 660
cagcttcaga atctgacacc ttgccttgct cttgccacca ggacacctat gtcaacaggc 720
cāaacagcca tgcatctata aaggatcatc tcttctgcca cctttactgg gttctaaatg 780
ctctctgata attcagagag cattgggtct ggggaagggt aagaggaaca ctagaagctc 840
agcatgactt aaacagggtt tagcaaagac agtttatcat caactctttc agtggtaaac 900
tgtggtttcc ccaagctgca caggaggcca gaaaccacaa gtatgatgac taggaagcct 960
actgtcatga sagtggggag acaggcagca aagcttatga aggaggatca gaattattct 1020
tgcgttgtaa gacagaatac gggtttaatc tagtctaggc accagatttt ttcccgctt 1080
gataaggaaa gctagcagaa agtttattta aaccacttct tgagctttat cttttttgac 1140
aatatactgg agaaactttg aagaacaagt tcaaactgat acatatacac atattttttt 1200
gataatgtaa atacagtgac catgttaacc taccctgcac tgctttaagt gaacatactt 1260
tgaaaaagca ttatgttagc tgagtgtatg ccaagttttt tctctggaca gkaatgtaaa 1320
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taacaagaca aacttatgat aaagtatttg tctttagat cagggttttg ktttgktttt 1440
ttaattttaa aatgcaaccc tgccccctcc ccagcaaagt cacagctcca ttccagtaaa 1500
ggttggaagc aatatgctct ggttggcagg caaccctgta gtcattggaga aaggtatttc 1560
aagatctagt ccaatctttt tctagagaaa aagataatct gaagctcaca aagatgaagt 1620
gacttcctca aaatcacatg gtccaggaca gaaacaagat taaaacctgg atccacagac 1680
tgtgcgcctc agaaggaata atcggtaaat taagaattgc tactcgaagg tgccagaatg 1740
acacaaagga cagaattcct ttcccagttg ttaccctagc aaggctaggg agggcatgaa 1800
cacaacata agaactggtc ttctacactt tctctgaatc atttaggttt aagatgtaag 1860
tgaacaattc tttctttctg ccaagaaaca aagttttgga tgagctttta tatatggaac 1920
ttactccaac aggactgagg gaccaaggaa acatgatggg ggaggcagag agggcaagag 1980
```

```

taaaactgta gcatagcttt tgtcacggtc actagctgat ccctcaggtc tgctgcaaac 2040
acagcatgga ggacacagat gactctttgg tgttggtctt tttgtctgca gtgaatgttc 2100
aacagttttgc ccaggaaactg ggggatcata tatgtcttag tggacagggg tctgaagtac 2160
actggaatatt actgagaaac ttgtttgtaa aaactatagt taataattat tgcattttct 2220
tacaaaaata tatttttgaa aattgtatac tgtcaattaa agtgtttttg tgtaaaaaaa 2280
aaaaaaaaaa actcgta 2297

```

```

<210> 106
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

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<400> 106
tcgacccacg cgtccgcctg tgggacgcgg tggtagccgt tgggtcggga gagtgagcgg 60
tatttgcmte gtttttcttg cttgttttcc ccccgtaga ctttgtcggt agagcgcggg 120
tatgggcccgc aagaagaaga agcagctgaa gccgtggtgc tggattgta atagagattt 180
tgatgatgag aagattctta tacaacacca aaaagcaaaa cattttaaat gtcatatatg 240
tcataagaag ttgtacacag gacctggctt agctattcat tgcatgcagg tgcataaaga 300
gacaatagat gctgtaccaa atgcatacct gggagaacag acatkgattg gaaatatatg 360
gtatggaarg tattccagaa aaagatatkg atgaaagaag acgacttctt ggaacagana 420
acnccagaga gtccaaaaaa ag 442

```

```

<210> 107
<211> 1019
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

```

```

<400> 107
ttgatctgcg gctgtcgagg cctgaggcag tggaggctga ggctatgatg gcggccatgg 60
cgacggctcg agtcgggatg gggccgcggt gcgcccaggc gctctggcgc atgccgtggc 120
tgccggtggtt tttgtcggtg gcggcgccgg cgggcgccgg agcggcgagg cagcagggtc 180
cgctggtgct gtggtcgagt gaccgggact tgtgggctcc tgcggccgac actcatgaag 240
gccacatcac cagcgacttg cagctctcta cctacttaga tcccgccttg gagctgggtc 300
ccaggaaatgt gctgctgttc ctgcaggaca agctgagcat tgaggatttc acagcatatg 360
gcgggtgtgtt tggaacaag caggacagcg ccttttctaa cctagagaat gccctggacc 420
tggccccctc ctactggtg cttcctgccc tcgactggta tgcagtcagc actctgacca 480

```

```

cttacctgca ggagaagctc ggggccagcc ccttgcatgt ggacctggcc accctgcggg 540
agctgaagct caatgccagc ctccctgctc tgctgctcat tcgcctgccc tacacagcca 600
gctctggtct gatggcacc agggaaagtcc tcacaggcaa cgatgaggtc atcgggcagg 660
tcctgagcac actcaagtcc gaagatgtcc catacacagc ggccctcaca gcggtccgcc 720
cttccagggt ggcccgtgat gtagccgtgg tggccggagg gctaggtcgc cagctgctac 780
aaaaacagcc agtatcacct gtgatccatc ctccctgtgag ttacaatgac accgctcccc 840
ggatcctggt ctggggcccaa aacttctctg tggcgtacaa ggaccagtgg gaggacctga 900
ctccccctcac ctttgggggtg caggaaactca acctgactgg ctcccttctgg aatgactcct 960
ttgccagcty tcaactgacct atgaacgact ctttngtacc acagtgacat taaagttat 1019

```

<210> 108

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 108

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cttgaaaact tagtttacta tacatcttgc cctattaata tgttctctta acgtgtgcca 60
ttgttctctt tgaccatttt cctataatga tgttgatgtt caacacctgg actgaatgtc 120
tgttctcaga tcccttggtat gttacagatg aggcagtctg actgtccttt ctacttgaaa 180
gattagaata tgtatccaaa tggcattcac gtgtcactta gcaaggtttg ctgatgcttc 240
aaagagctta gtttgyggtt tcctggacgt ggaaacaagt atctgagttc cctggagatc 300
aacgggatga ggtgttacag ctgcctccct cttcatgcaa tctggtgagc agtggtgag 360
gcgggggagcc agagaaactt gccagttata taacttctct ttggcttttc ttcatctgta 420
aaacaaggat aatactgaac tgtaaggggt agtggagagt ttttaattaa aagaatgtgt 480
gaaaagtaca tgacacagta gttgcttgat aatagttact agtagtagta ttcttactaa 540
gacccaatac aaatggatta tttaaaccaa gtttatgagt tgggtttttt cattttcyat 600
ttgtatttta ttaagagtgc ttttcttatg gtgatttttt tnaattgcga tttgatatgg 660
tttggccata tggccccacc caaatcccca tcttggatta taatccccat g 711

```

<210> 109

<211> 743

<212> DNA

<213> Homo sapiens

<400> 109

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tcgagttttt tttttttttt ttttactttt taaaatttta ttgatgtacc acctgatcaa 60
agcatgggat attttaatatg tattatacat aatattttta catagaaaac tttacatagc 120
atttcatatt atataattct gcttattctt tcaaaaattt atacatccat tgggcaagga 180
atggttttca ttaaattacc aatattaaat gcacttaatc atttgttata ggttaaacca 240
aagtaactat taactaactt ttaggcattt taaggaggtg aaacatacat ttacacata 300
aatatttgat gcaaatatgc agataaaatt ttttaaaaat tagaactctg agtaaaacac 360
ctttgataga ttatattgtt ttgttttgag agcaaggatt tccagatatg ttcatctttt 420
aaaacactca gctttgggtt ctttgtttcc caaactgcaa agctgctgat aacaaaactc 480
caggattcca tgtgagttca gctatgtcta ctttaacaca aatattaaaa cagaattcag 540
raaatgcagt attaaggatc cagcttctat tgaaaccaat atccatttgc atcataacaa 600
caaacatttg aatgagatgg tcacacttgt acttatcagc aggttccttt aataacaaag 660

```

actactaaat gtatatacctt aatcacaaaa gaacaacaaa aaaaatacag gttttttttt 720
tttcatttcg tacaaaagtc acc 743

<210> 110

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 110

tnctaaatat cagatgtctt tgatgtaagg gtagggaatg gagaaatatt ttcaattgtg 60
tatttgtatt acaaagaact tgaaatttac tttcttagtt gattatatta aatgatgtat 120
atattatatg tggtttataa gctcaacact ggccattttt ttagttttat tgtaaattgg 180
tatttttcta tgtttaatta taatagatct ggctttttct ggatagcata aagatcactg 240
aactatatat atataagara caagagttct attttagcac aaaggcattt tatattattt 300
attgaatcca taagtttggt ttcgtcaaaa acattccata ttattttctgc tcctttttat 360
ttgtatagtt tgttatttaa agaaatggca gtccttcctg ttcttaatac aataaaattg 420
aaataatgca cctagtaatg tggccgacat ctcttctcac caccatggac tgttttcaac 480
aacagttgat ctctcggctc gtgctgagag gcgcatgcat gtctttcgtc acgtcgggca 540
gcacacctgc tgtgaaatac tgctttcatc tacctcttca gaaggcttct tgcttggtga 600
caagtaccgc aaaggcttta ttctggactg gctatctcat aaaanggatt tctgtaagac 660
tttgagtggt cattccctca gaaccyaggt ttgtttctaa agccacggta ttgtccrrgr 720
rccctgtgt ktggggncag gtagctatcc ctcccatgtc attagtaatc ctttaggatt 780
ttaaggtaca atggg 795

<210> 111

<211> 1332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1300)

<223> n equals a,t,g, or c

<400> 111

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ncgggncagc agctcccagt gtgacctgac aaaaacacgt aggggcaggg acggtcccca 60
ccccagggga cacaaccctt ggtcttgac cagtagagga cacggagggt tcagaccctt 120
cctcagaccc tccccacatc tgaaactgcc tcccccaac caccagcagc agcagggccc 180
tcctcccca ccagctctcc ccacagggcc cctcagcatc atggagaccc gcagcggggc 240
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ccagaagaaa cagccccctc tgetgctggg gtgggactgt ctgtgtgccc tgtgggggtc 480
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tmagctcccc ttcctctgca gtcacctca gctccccctc cttgcccgcc tctccccccg 840
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ccggccccag gctggaagcc tccctccact taagttattg ttttaaacca aagtttacag 1020
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acggggagcc ctttcttccc tggaccctgg ggcttgnctc ntgggggggc tcttccaaga 1260
accctctctc taagggaacc aagtttcacc cgttcgtggn tgggggatgt tgggatttct 1320
aaggcaaaag ag 1332
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<210> 112

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 112

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ggtaacggcc tccaccgacg ggatcggtt cgcacgccc ggcgtttggc ccaggacagg 180
gccacgtggt cgtcagcagc cggaagcagc agaatgtgga ccaggcggtg gcacgctgca 240
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gcggctggtg gccacggctg tgaagcttca tggaggtatc gatatcctag tctccaatgc 360
tgctgtcaac ctttctttg gaagcataat ggatgtcact gaggagggtg gggacaagct 420
ctggatggac aaggaaaaag aggaaagcat gaaagaaacc ctgcggataa gaaggttagg 480
cgagccagag gattgtgctg gcatcgtgct tttcctgtgc tctgaagatg ccagctacat 540
cactggggaa acagtgggtg tgggtggagg aaccccgtcc cgcctctgan ggaccgggag 600
acagcccaca ggccagantt gggtcttagc tcctggtgst gttcctgcat tcamccaytg 660
gscttttccc acctygytc amcttactgt tcacctcatc aaatcagttc tgccctgtga 720
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<210> 113

<211> 1690

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (1659)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1664)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1676)
 <223> n equals a,t,g, or c

<400> 113
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 ttggctgcag tccagctgcc agatggcttc aacctgctct gcccaacccc accacctccc 120
 ccagacacag gcccagagaa gctgccatca ctggagcacc gggactcccc ttggcaccga 180
 ggccccgccc ctgccaggcc taaaatgctg gttatcagtg gaggtgatgg ctatgaggac 240
 ttccgactca gcagtggggg cgccasagca gtgagactgt gggtcgagac gacagcacia 300
 accacctyct cctgtggagg gtgtgaccct gtctgccgtg gcccaggact sgcccggcca 360
 cctgccttca gcctgcttgc ctctccctag cccacacgca gactttgacc aggagtatcc 420
 agccagggga cacatgtgcy kgertgggct ctgcttgtct tcgcggaaga ttcctgatgg 480
 aacaccact ggccagccag gccatggctt cccccgacc tctggctgcc ccggtgcttc 540
 cagtcatgat cgggtggggg acatgtgggc tgaccaggac ctctgaccct ggagcttcta 600
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 aggggtttct ggagggcagc aggaaggctg ggggaattccc catgtacagt atttatgttt 720
 ctttttagat gtgtaccttc ccaagcactt atttatgcag tgacctggtc acctgggtg 780
 ggggtgattt gaggaatga catgaggaaa agaaacctat tcctgccctg gggaccaccc 840
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 tacagacaca cacgtacgca cactgcatgt ccaaggccct aaacattgcc cgttgacata 960
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 tctctcaggt aggagaaatg ggcccatgat ctctcacag tcgccccag tccttgggcc 1200
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 tttgttttg tttgggttg gtgggtcatt gcggtcttag attatgtttc tcttgctacc 1560
 aaacagtcac gtattaactc tctttggatg atgaagttta aagagtcaat aaatagaaac 1620
 accagatgac tgcaaaaaaa aaaaaaaaaa aaaaaaana aaanaaaaa aaaaanaaaa 1680
 aaaaaaaaaa 1690

<210> 114
 <211> 620
 <212> DNA
 <213> Homo sapiens

<400> 114

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gccagctgac tgaggggtaca caggattggg tctagacctt gatgcctggg tggagggccc 120
ttgtaagggg ccatagcctc ttcaggacca actggaggga gagttaggaa acaccagctc 180
ctgcctgggg cagtgaggga atgggagcag ctgtgggagc ctcatttcag gcaagtcctc 240
cccaaacctt cagatgcagt gagacctggc ctccctgttg tgcttttcag actttgtttt 300
cagaatgctt ttatctcgag tgtgcccttc ggccctcaca agagcccctg gggagtaggt 360
ggtggcctgt gccgtcatcc ccatttcaaa gcaggagagc gaggtcctgg gaggggaaag 420
tgcttgccctg aggtccact gtgttagtggt gtgggcagga ctggaactcg gttctccaac 480
agcccagagc tcaactcttt acaccagag gtggagcagg tggcttaggg ggtgggttatg 540
tacttcacaa gccaatccc ttcagccagg agctcctggg tgcatttccg tgtcagaaac 600
agtaccgagt cccaccccct                                     620
```

<210> 115

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 115

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cctctactcc agcctccact ccggcctcca ccatgtccgt caggtgaccc agaagtccta 120
caagggtgtc acctccggcc cccgggcctt cagcagccgc tcctacacca gcgggcctgg 180
ctcccgcatc agctcgtccg ccttctcccg ggtgggcggc asttccgggg gggcctgaac 240
agcagcatga gtgtggtcgg gggtacggc ggccggggccg gggatatggg ggcacacgg 300
ccgtctcagt gaaccagagc ctgctgagcc cccttwaagc tggaatkga tcccaacatc 360
```

```

caagctgtgc gcaacccagg agaaggagca gntcaagacc ttcaacaaca anttggcttc 420
gttcatcgac aagtgaagca ctggagcagc agaacaaatt tttggagacc aattggagct 480
tcttaaagca gcagaagacg cgcggagaac ntagacaaat ntctgagagt aaatnagaac 540
tt

```

```

<210> 116
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

```

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<400> 116
aattcaaccg tcgttatccc aaaattcagt tttcactttc caccggccct tccggcacta 60
tgctggatgg tgtactggag ggaaaactga atgcggcggt tattgatgga cccattaacc 120
atactgccat cgacgggata ccggtatacc gcgaggaact gatgatcgtc acgccacaag 180
gatatgcgcc agtaacccgt gccagtcagg ttaatggcag taacatttat gccttccgcg 240
ccaattgttc gtatcgtcgc cacttcgaga gctggtttca tgctgacggt gccgctccgg 300
gaactatcca tgagatggag tcttatcacg gaatgttggc ctgtgtgacg gcaggagcag 360
gcattgcgct tattccgcgc tctatgctgg aaagtatgcc ggggcacac cagttgaan 420
cgknggccgt tagctgagca atggcggttg ttaacaacct ggctggtctg gccgtcgtgg 480
tgcgaaaaaa cgttccgctc gaaggggggc ccggtancca attcg 525

```

```

<210> 117
<211> 728
<212> DNA
<213> Homo sapiens

```

```

<400> 117
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gcggcggcct cctggagaat gccaaacccc tcatctacca gcgctctggg gaggcgcctg 120
tgacggcagg cgaggaggac gagcagggtc ccgacagcat cgacgcacgc gagatcttcg 180
atctgattcg ctccatcaat gacccggagc atccactgac gctagaggag ttgaacgtag 240
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caaccattcc gactgcagc atggccaccc ttattggtct gtccatcaag gtcaagcttc 360
tgcgctccct tcctcagcgt ttcaagatgg acgtgcacat tactccgggg acccatgcct 420
cagagcatgc agtgaacaag caacttgacg ataaggagcg ggtggcagct gccctggaga 480
acaccacact cttggagggt gtgaatcagt gcctgtcagc ccgctcctga gcctggcctt 540

```

tgaccctca gcctgcatac tggatcctg gtccagctc ctgccagggc tgtaccgtt 600
gttttcttga atcactcaca atgagaaact aacattttgc tttttgtaat aaagttaatt 660
tatattcarw tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccgggggg 720
gggcccccc 728

<210> 118
<211> 948
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (944)
<223> n equals a,t,g, or c

<400> 118
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aggtgctgcg ttctgaggct ggcacgaac tcatcatcga ggacgacatc aggcccgaga 120
agcagaagag gaagcctggg ctgcggcgga gcccatcaag aaagtccgga agtctctggc 180
tcttgacatt gtggatgagg atgtgaagct gatgatgtcc aactgcccc aactctctatc 240
cttgccgaca actgccctt caaactcttc cagcctcacc ctgtcaggta tcaaagaaga 300
caacagcttg ctcaaccagg gcttcttgca ggccaagccc gagaaggcag cagtggcccc 360
gaagccccga agccacttca cgacacctgc ccctatgtcc agtgcctgga agacgggtggc 420
ctgcgggggg accagggacc agcttttcat gcaggagaaa gcccggcagc tcctggggccg 480
cctgaagccc agccacacat ctccgaccct catcttgtcc tgagggtgtg aggggtgtcac 540
gagcccatc tcatgtttac aggggttgtg ggggcagagg gggctctgtg atctgagagt 600
cattcaggtg acctcctgca gggagccttc tgccaccagc cctccccag actctcaggt 660
ggagcaacag ggccatgtgc tgccctgttg ccgagccag ctgtggcgcg ctccctgggtgc 720
taacaacaaa gtccacttc caggtctgcc tggttccctc cccaaggcca caggagctc 780
cgtcagcttc tcccaagccc acgtcaggcc tggcctcatc tcagacctg cttaggatgg 840
gggatgtggc caggggtgct cctgtgtcga ccctctcttg gtgcattttt ttggaagaat 900
aaaattgcct ctctcttgn aaaaaaaaaa aaaaaaaaaa gggnggcc 948

<210> 119
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)

<223> n equals a,t,g, or c

<400> 119

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tccggcctcg cccagcgctt ccacgcgga ccaactgccg gaggcgcggc gcggcgctcg 120
gcngngcgcg tgtgaggaaa ccgccgcctc agccgagcgc gcggggccgc ccagggcgtt 180
agttttcggc gcgcagtcgc ggtcccccg c 211
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<210> 120

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 120

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gctgctctgt gaaggaaccg cctttctctc cgcgtgtctc acccttttct ccccatatct 120
gtttggacat gagctgaggg cacggctcgc ggcggtcagc ctgttcgcag ctacggcgag 180
gaggggcgcg attgytcctt gttgccgctc cgttagtggt ccgcgtccat tccgcgcggt 240
gtcccgattt taggggtagg gagaagtgtc agcttcaggc atcgcgaggc gtggcgggcc 300
catggccccc tggtgagggc ccccgcggtt ggtactgctg ttcagcggca agaggaaatc 360
cgggaaggac ttcgtgaccg aggcgctgca gaggagactt ggagctgatg tctgtgctgt 420
cctccggctc tctggtccac tcaaggaaca gtatgctcag gagcatggct tgaacttcca 480
gagactcctg gacaccagca cctacaagga ggcctttcgg aaggacatga tccgctgggg 540
agaggagaaa cgccaggctg acccaggctt cttttgcagg aagattgttg agggcatctc 600
ccagcccacg tggctggtga gtgacacacg gagagtgtct gacatccagt ggtttcggga 660
ggcctatggg gccgtgacgc agacggtccg cgttgtagcg ttggagcaga gccgacagca 720
gcggggcgtg gtgttcacgc caggggtgga cgatgctgag tcagaatgtg gcctggacaa 780
cttcggggac ttgactggg tcatcgagaa ccatggagtt gaacagcgcc tggaggagca 840
gttgagagaac ctgatagaat ttatccgctc cagactttag tctactaggt ctaggagtga 900
gctggggcct gctgaggttg ggggtggggc gactctgcaa aatgggggtg tcccccgatc 960
ctggccgagg tgaggaacag acaggggggg tctagattct gaggggggtg gtggatattg 1020
ggcaaggcag gaaacctctg gagacctcat tttctccatg gggaagacag ccatgctctt 1080
caggaggaga ctccaagggc aaaggagggt gtcttggtg tgcctgaagg cgaaacctg 1140
ccatatcccc agtgccagtc ccctcagcct gtggtggcct tgcacctga ctggatgttc 1200
tcagcccctt gttctgggca agaaccaga gctccccagt gtggatacta ataaacctct 1260
tggagcacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 1308
```

<210> 121

<211> 2516

<212> DNA

<213> Homo sapiens

<400> 121

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gattgacatt ccagtgaat gatgggagtt aattgattta atttagatta gttgaaaatt 60
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ctattgaaat cacaaaagta gaacagggcw ytttattttt gtataattta ggattaggta 180
tgcttctttg ttctaacaag tcatgttttc taacctttct ttcactaagc aaaccagAAC 240
agatttgaac tgttatgggt tatatattag tatggagatc agctcagatg acattaaaaa 300
tgccgtagtg ttattcttgt atgcccattc tttttttccc caaaattagc actttaattt 360
tatttactgt tataatattt gttttcttag attaggtagg aaatcttaat ttggccaccg 420
cctactttga caagtaaata ttacatcata cgattttgca acattaaatt agaactactg 480
```

```

aaactaaaaa attatgtttc agtgaatgct acaactaagc attttttttt ttttaagaaaa 540
acaattgtat tatgttttgt tgccttgcca ctttgagtat cttatctgaa aatctgttcc 600
ttgccatggt tttctcctgt taacataaac tatgtgccct gtgaatttct ggggactgaa 660
tttgaaattg ctcttgccaa ccgtttgtgg cctggcgtgt atctgaatgc ctgaatatct 720
ccccgctgaa tgaatttcgt attctgccct gaattcactc gggatatattg attggctgga 780
tgatcttggg gccgcccact tgacgtttcc agaagagtca ccgaagaaaa gaaccaggag 840
tgtagaggat gatgaggagg gtcacctgat ctgtcagagt ggagacgtac taagtgcaag 900
atgtatagaa tatttttcaa cacttattaa cttttcagat aacataatct atatatagat 960
taagctttca gggatttggg aatctttttt tctttctctt ttttgttttt gttttatttt 1020
tccatttctt ttgggtgggg ggattgtatt ttgtcttctt ttagaaatgt aatgtttgtt 1080
atatagaact tccagaacag taatcaaatt aatgaaatta gacctaaata ttatgttttt 1140
tgatgggtgt gaccaataaa atatctagtg ataaggaaat ttgtagcatc aactagaata 1200
atctacattg atagcattta ttgtgataag tacattgttt ccacttcttg atatgactga 1260
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caccttaata aatccagata ttaaagttgt agactttggt agtgcaacat atgatgacga 1800
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agggtggtcc caacctgtg atgtctggag cataggatgc attcttattg aatactatct 1920
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tcttgacact ctacaaaaac atatgataca gaaaaccagg aaacgtaaat attttcacca 2040
cgatcgatta gactgggatg aacacagttc tgccggcaga tatgtttcaa gacgctgtaa 2100
acctctgaag gaatttatgc tttctcaaga tgttgaaacat gagcgtctct ttgacctcat 2160
tcagaaaatg ttggagtatg atccagccaa aagaattact ctcagagaag ccttaaagca 2220
tcctttcttt gaccttctga agaaaagtat atagatctgt aattggacag ctctctcgaa 2280
gagatcttac agactgtatc agtctaattt ttaaatttta agttattttg tacagctttg 2340
taaattctta acatttttat attgccatgt ttattttgtt tgggtaattt ggttcattaa 2400
gtacatagct aaggtaatga acatcttttt cagtaattgt aaagtgattt attcagaata 2460
aattttttgt gcttatgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggga aggggg 2516

```

<210> 122

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1125)

<223> n equals a,t,g, or c

<400> 122

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ggggccggag ccgggtgcgg atttgctggg gctgagtcgg gggcgcgcg gcccctgacct 120
ctgccctctg acctctcccc tagcaggcga ccatggggaa cgtgttggt gccagctcgc 180
cgcccgagg gccgccaccg ccgcctgcgc cgccctcgt ggggctgccg ccacctccgc 240
cctcgccgcc gggcttcacg ctgccgccgc tgggaggcag cctgggcgcc ggcaccagta 300
cgaktcgarg ttcggaacgg acccccgggg ctgcaaccgc cagcgccca ggggcccgcg 360
aggatggggc ctgcggctgc ctgccaacc cgggcacatt cgaggagtgc caccggaagt 420
gcaaggagct gtttccatt cagatggagg gtgtcaagct cacagtcaac aaagggttga 480
gtaaccattt tcaggtaaac cacacagtag ccctcagcac aatcggggag tccaactacc 540
acttcggggt cacatatgtg gggacaaagc agctgagtc caccagaggcgt tccctgtac 600
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<210> 123

<211> 2114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1966)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2039)

<223> n equals a,t,g, or c

<400> 123

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aggagactct gagtgaactg gagtctcagt tcactttcaa gtatcatcac gtgggcaaac 600
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tgctgaagga gggggaggag cccactgtgt actcagatga ggaagaacca aaagatgaga 660
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atcattttgt acagtccact ctgtctttaa aacatagtga ttacaatatt tagaaagttt 780
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<210> 124

<211> 583

<212> DNA

<213> Homo sapiens

<400> 124

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ttgtgactgc acaccgggac cccactcaat tcaaagacct agactgcttc aaccctacca 180
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caggcagagg aggaagggga ccagcctgga ctggctctgg ggtacctggt gctcactgtg 300
cacctgtgta cccggcaaa cagatgtgcc tgggcacagg cctggcccac tcgggtatct 360
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ccatcaacct cacctgcagt gcaactggcct gggcagtgtc cccccagact tccagctcca 480
gccagtggcc tgctgaggtc aggtccact atggtgggct cactggccct caaacctcca 540
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```

<210> 125

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1960)

<223> n equals a,t,g, or c

<400> 125

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gctgcaaaaa aaaaaaaaaa aaaaaaaggg ggccgcttan agatcctcaa gggccaagta 1980
cggtgat 1987

<210> 126
<211> 1451
<212> DNA
<213> Homo sapiens

<400> 126
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ccattctgta tgatgagcga agtgtacaca aagtagaacc aattaccaag catatagggt 240
tggtgtacag tggcatgggc cccgattaca gagtgcctgt gcacagagct cgaaaactag 300
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tacttatttg tggttggaat gagggacgac catatttatt tcagtcagat ccactcggag 480
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aaaaaaaaa a 1451

<210> 127
<211> 1234
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (857)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1204)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1226)
 <223> n equals a,t,g, or c

<400> 127
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 gtgtattttg tacacaggtt ttatgctggg ggctcagaga gaagtggaca gcagattgtt 180
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 gcccgccag ccatgntgc caccagcttt atcctcatga ctactttccc gaacaaagag 900
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 ggccatgccc catggggatc gcccctcctg ccccttctgt cacaccagc agtccagtgc 1080
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 accnaaaggg gggcccgggc ccaatncccc cctt 1234

<210> 128
 <211> 863
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (840)
 <223> n equals a,t,g, or c

<400> 128
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 cgtgggtattc agggacatct cgcgcgtcct gaaggacccc gcctccttcc gcgcccgcct 180
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 cctagactcc cgaggcttcc tctttggccc ctccctggcc caggagcttg gactgggctg 300
 cgtgctcctc cgaagcgagg ggaagctgcc agggccact ctgtgggctt cctattccct 360
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 ggtcgtcgtg gatgatctgc tggccactgg tggaaacctg aacgctgcct gtgagctgct 480
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<210> 129

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 129

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 attctyawca agaagattta tgaggagaag aaaaagaa 1238

<210> 130

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 130

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 gcagcraagg acccaggggc agagccacgc tggggatgga ccccttcgag gacacgctgc 180
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 cgaggttgaa tangctctt 379

<210> 131

<211> 1786

<212> DNA

<213> Homo sapiens

<400> 131

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<210> 132

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (963)

<223> n equals a,t,g, or c

<400> 132

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aanttttcca gcct 974

```

<210> 133

<211> 634

<212> DNA

<213> Homo sapiens

<400> 133

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cagtgcctt tccaggcctt aagagaagta aaacttagct gcagcgctag gaggtggacc 180
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ctcagtgtg ctgcgacatg aacgagctca cggcggtgac ggccgcttcc gttgcctaga 360
atgcggtgag cgctgtgcac gggctgctga cctccgagcg cacaggcgca cgcatgctgg 420
ccagaccctc tacatctgca gtgagtgcgg acaaagcttc cgccacagcg gccgtcttga 480
cctacacttg ggcgcacacc ggcagcgatg ccgcacttgc ccctgccgca cwtgcgggccg 540
gcgttcccg cacctcccg cgctgctgct acaccggcg cgccagcatc tgccagagcg 600
gccccgscgy tgcccgtgt gcgycctcag gttt 634

```

<210> 134

<211> 1855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1845)

<223> n equals a,t,g, or c

<400> 134

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cgcgcgaggg ccggcctctg tgtgtgcgcc acagcgagcc ggtgtgcggc agcgacgcca 180
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gtttgcgcca taaatataac tttatcgcgg acgtgggtga gaagatcgcc cctgccgtgg 360
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acaagcaccg ggtcaaagt gagctgaaga acggtgccac ttacgaagcc aaaatcaagg 540
atgtggatga gaaagcagac atcgactca tcaaaattga ccaccaggc aagctgcctg 600
tcctgctgct tggccgctcc tcagagctgc ggccgggaga gtctgtggtc gccatcggaa 660
gcccgttttc ccttcaaaac acagtcacca ccgggatcgt gagcaccacc cagcgaggcg 720
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```

<210> 135

<211> 917

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (913)

<223> n equals a,t,g, or c

<400> 135

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```

```

tggccgcccc agttgggggg cgagctcggg ggtgacgcgc ggccctcacg tgacccarag 120
ctgcagagcg acgcagcctt cgggtgcagtc gtcactcgcg tctggctacc agctccccgc 180
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aggcccagga aaacgaagag atggagcagc ctatgcagaa tggagaggaa gaccgccctt 360
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ggggggcccc gwnccca 917

```

<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 136

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gcaaggcttc ccctctaccc tctctgggcc tctcacaac gctgagcccc gccccgctga 60
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atccgcgggc tggccaykc catccgcctg ctccctggaat acacagactc aagctaygag 180
gaaaagaagt acacgatggg ggacgctcct gattatgaca gaagccagtg gctgaatgaa 240
aaattcaagc tgggcctgga ctttcccaat ctgccctact tgattgatgg grctcacaag 300
atcacccaga gcaacgccat cctgcggtac attgcccga agcacaacct gtgcggggaa 360
tcagaaaagg agcagattcg cgaagacatt ttggagaacc agtttatgga cagccgtatg 420
cagctggcca aactctgcta tgaccagat tttgagaaac tgaaccaga atacctgcag 480
gcactccctg aaatgctgaa gctctactca cagtttctgg ggaagcagcc atggtttctt 540
ggggacaaga tcaccttctg ggatttcac gcttatgatg tccttgagag aaaccaagta 600
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ggcttgagga agatctctgc ctacatgaag tccagccgct tcctcccaag acctgtgttc 720
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tcagccccga gctgtccccg tgttgcatga aggagcagca ttgactggtt tacaggccct 1140

```

```

gctcctgcag catggtccct gccttaggcc tacctgatgg aagtaaagcc tcaaccacaa 1200
aaaaaaaaaa aaaaaatttg ggggggggcc cgttanccca tttggccctt tagngngggg 1260
ggttttaaat t 1271

```

<210> 137

<211> 2017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 137

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aacaggagat tgctactcta gacaacaaga caatgactga tgtggtgggt aaccararga 180
rgagcgccga gctgagttct acttccagcc ctgggkcagg aggctgtgtg ccratacttc 240
tactccaagg tgcagcagag acgacaagaa ttagagcaag ccctgggaat ccggnataca 300
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aaggacaaca ccagaatgaa gaggggtctca caagacacct gttatcctct tctttcacc 480
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ccctggctta cataggacct ctatagatgtg ttagagagag aacatgtagt ggtaatgagt 600
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ccctgagctc ttcttccttc aataccatta aaaaaaa 2017

```

<210> 138

<211> 937

<212> DNA

<213> Homo sapiens

<400> 138

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aagcaaaatg gggaggggga ggaagcagtg actttttttt ggtaattatg cgcttttttt 360
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attgaacttg aaacctttta ttccgggcgt cttggtagtt tctggtgga ttcagtgggt 660
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tgccctcctc ccagtgggtc cccaggtgcc agacccaaaa gcttttccta cagtgatacc 780
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ttaagaaatg tgtttgccct gttttgtttg gtttcgtttt gttttctttg aataaatgac 900
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```

<210> 139

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2746)

<223> n equals a,t,g, or c

<400> 139

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```

<210> 140

<211> 1241

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 140

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tcctccggga tccctgcct ggtgcccaca ctgcctcgca agcgctcgcc accctcacgt 1140
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1241

```

<210> 141

<211> 3405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1569)

<223> n equals a,t,g, or c

<400> 141

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<210> 142

<211> 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2232)

<223> n equals a,t,g, or c

<400> 142

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aaaacacaaa aagatattcc acaggacatg ccactttatt ataaaacctg acacaggcat 1860
agtaccaagt atttccctgca ttgttgctaa aattgtttta ttgtagctcc acattctggg 1920
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tgtagcaaaa agttgattag cttaccaaga ttattaatag caatgtatgt gttataatac 2160
aacttagtna cattaaaagcc tacgaaaact catccnggct gtaggatatg aataaaggaa 2220
gaattatgac tncattatga aaaaaagaag ttttaaagtt ttcaatac 2268

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<210> 143

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 143

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attttcacac acagtgtgta agatgctgca agaccaaatac atagctcata aaatcaggtc 180
ctgagatagt taccataaaa gaggaatcct ttgagtgtat gccattgggtg agccgatgag 240
catggaccat agaagggtc aatgtagaag gtaaaattgg caaatcataa ttgagaaata 300
tgaaatgtat tcccatacat aatatggtat aggggtgtaat gtacctgctt ttgatcactt 360
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gttacatagt tactacacca catttatgtg tatgttatgt tttaatagtc aatgataggt 480
atgtacaatt gataatataa aggggtcat tgaaacttga gagcctgttg agttttggtt 540
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ggcattgttt ctgtctcatg agaattcttt tattcattac cataagcctt cactgatact 660
ataagcatta ttttaaatga cgctgatctt aagtctgaaa taaatggaaa gcagaaaagg 720
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aaaaaaaaaa aaaaatt 1757

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<210> 144

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<400> 144

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aa 1062
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<210> 145

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 145

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catctgcaca ggcgctcgac agctccaaga cgctgcggcc aagcagaaag ttgaacagaa 180
cgcggtcccc agccacacca agttcagcat ttaccctccc attccaggag aggagagctc 240
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aaaaaaaaaa

1030

<210> 146

<211> 814

<212> DNA

<213> Homo sapiens

<400> 146

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<210> 147

<211> 2678

<212> DNA

<213> Homo sapiens

<400> 147

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cgtgttaaga agcaacttca ggcattaagt tcagaattag cccaagccag agatgaaacc 180
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<210> 148

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 148

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tgacctcgtg atccgcccgc ctcggcctct caaagtgtg ggattctgtg tgttttgtgc 180
acctccactt taggtaatca tagggagcac atttacagga tggcttaata acatgaaaac 240
aggctagttt caagcaacag caatgtcggg tggaaagcag gcgtcatttg ccttgaaaaa 300
agccttttga caacatacag gcattctttt aaaaccaggc tgaaacattt tattcccgag 360
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gacatctttc attggatttt ggaaaattgt tccccatggg attctaacct cactaccaa 480
tgagtgaag cttgattaag agttcttcca tatactagcc tccttggag aagtgatcag 540
aagggtgataa gaaggacaga aaggactatt ttaaagttgg actgaaggag aaaaaagcaa 600
aattcttggt tcatcccaat tctagttaga acaaagttaa acccccgtaa tcttaagag 660
aaaatctttg gaggttttaa ttaaacattt tatacattta agtcttggt aatgggtgctt 720
taagtgtcaa ttagcatgt aaaaggcttt gtacagacag gtaaaagttc catttctgag 780
tgatgaaatg taacacttct tcatctttaa cttgaaatca aaactatcag attttatttt 840
tgtataattt aagggaaggta aagttagggg actagaagac tctaaattgg cttctacaga 900
tcaataattt aaatgtaact agttgggatt ttatagttaa aattatattt gtgtatataa 960
cataactaat ctgtaaattg taataaatat atttgcaatt attaaatggt aagtgatatt 1020
ttggttca 1028

```

<210> 149

<211> 1425

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1359)
<223> n equals a,t,g, or c

<400> 149
gcgtctccgg aagtggagggc gggagcggca cggcagccac tgcttggggg agcgggaggg 60
cagactctgg gcgccactcc cgggccgggtc atgaacgggc cggcggacgg cgaagtggac 120
tacaaaaaaa aataccggaa tctgaagcgg aagctcaagt tcctcatcta cgagcacgag 180
tgcttccagg aggagctgag gaaagcgcaa aggaaattac tgaaggtgtc ccgggacaag 240
agtttcctcc tagaccgact tctgcagtac gagaacgtgg atgaagactc ttccgactca 300
gatgccactg catcatcaga taacagcgag acggagggga cacccaagtt gtctgacaca 360
ccggccccta agaggaagag aagccctccg ctggggggcg cccctctcc ctccagcctc 420
tccctgcctc cttcaacagg gtttccctt caggcctccg gggccccctc ccataacctg 480
agctcgctgg cctcctcccg ctacccccca ttcccttctg actacctggc cctgcagctg 540
cccgasccca gtcccttrag gcccaagcgg gagaaacggc cccgmctgcc ccggaaactc 600
aagatggcgg tgggaccccc cgaytgccct gtgggagggc cgctganctt ccctggccgg 660
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cccacgatcc tgagcacggg ccctcggcag atgttcagcg atgcaggtag cggggacgat 780
gccttgatg gagacgatga cctggtgatc gacatcccg agtgaccgtg acatcacgcc 840
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tcggaggtgt ttattgatgc ccagctgcca tgctccggcc actgacacaa ccagaaaagg 960
cgtaaakatg cacgggtgtc ccccaggagg gtgcaggggc cctgccttca aaccccgggc 1020
ccctccaggg gacagttatt taaacgagtg gccgggagca tctgccacct gctggggagg 1080
cagagaccct gcaatggcca cctctttaa agggcagctg tacagggcta ggttttttca 1140
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cattctctc ctctgaacct cccctaacc gacctcctc ctgttggggg agagggacgg 1260
ggcagcgtgg agaggcagga gtgaggagcg cgggggcctg gggccgggct ctgagcactg 1320
cccggtgtg cagatgatgg ggggtttgca tatttgcan ggactagcga gtcaggcagg 1380
aggtttgc atgtgaatat agaactccgc agccctcat gagca 1425

<210> 150
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<400> 150
gctgcgagaa gacgacagaa ggggagagcc aatggaaagg ggctgccgcg cggccgtaaa 60

```

gagttttag agcagttcgg gtgcggtacg ttgcattccg gtaccggacg ccgagagcgg 120
tttgtctccg tctctggagt tgtaggcgag aggtgatcat gtccggtcgc gggaaacagg 180
gcggcaaaagt gcgagcaaaag gccaaatccc gtcctctccg cgcgggcctg cagttcccgg 240
tgggccgagt gcacagactg ctgcgcaaag ggaactacgc ggasnagtgg gcgccggggc 300
gccggtgtac ctggcgggcg tgttgagta ccttacggcg gagatcctgg agctggctgg 360
caacgccgcg cgtgacaaca agaagaccag gataattccc cgccacctgc agctcgccat 420
ccgcaacgac gaggagttaa acaagctgct gggcaaaagt accatcgctc agggcgggcg 480
cctgccccaa atccaggccg tgctgctgcc caagaagacg gagagtcaga agacgaagag 540
caaatgaccc tgacgccgcc ctgagggagc tggctccscg agcaaaggcc cttttcatgg 600
tcgtcccgcg atgttttga atgtgctgga tgtcatggag ggccggtgac atctagcggg 660
gaggtgggcg gcgagggtcc cggcgggagc caataaagtt ggtgaaaatc gtaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780

```

<210> 151

<211> 1066

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 151

```

ggacccgccg tggcgcgga gaaggtgctg cgcgggctga tcgcggagct ggcccgccgc 60
gtgcgcgccc tgcgggagca actgaacagg cgcgcgact cccagctcta cgcgggtggac 120
tacgagacct tgacgcggcc gttctctgga cgcgggctgc cgtccggggc ctggggccgac 180
gtgcgcgcg agagccgcct cttgcagctg ctccggccgc tcccgtctct cggcctgggc 240
cgctgtgtca cgcgcaagtc ctggctgtgg cagcacgacg agccgtgcta ctggcgctc 300
acgcgggtgc ggcccgacta cacggcgagc aacttgacc acgggaaggc ctggggcatc 360
ctgaccttca aagacgcctc tttttcttca tcagggaaga ctgagagcga aggcgcggga 420
gatcgaacac gtcatgtacc atgactggcg gctggtgccc aagcacgagg aggaggcctt 480
caccgcgttc acgcccggcg cggaagacag cctggcctcc gtgccgtacc cgctctcct 540
ccgggccatg attatcgag aacgacagaa aaatggagac acaagcaccg aggagcccat 600
gctgaatgtg cagaggatac gcatggaacc ctgggattac cctgcaaaac aggaagacaa 660
aggaaggggc aagggcaccc ccgtctagaa tgccagaacc agcgggtggc cttaggggct 720
gtgaggcagt ggggacctta ttgatgaaag aaaccgtctt tgcgttacac ccgagtctgc 780
ctctcgagc agggagctca cctccgcga cgtgttctga ggtctgcat cttagggggg 840
agggctgggg caaatcgcca cctgtgcctt tcctctggcc ctgctgcccc cacaccaac 900
tccgagggcc cacgctgggg aaagcgggaa gcgctcgctc cttttcccc attagtgtc 960
tctctgcctg gatcccgga gaagctatga aaggaataa agagaaaaga artamaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccccct 1066

```

<210> 152

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 152

```
accccggtctc tccaaggagg tgtgacatca tcatcatctc tggccggaaa gaaaagtgtg 60
aggctgccaa ggaagctctg gaggcattgg ttcctgtcac cattgaagta gaggtgccct 120
ttgaccttca ccgttacgtt attgggcaga aaggaagtgg gatccgcaag atgatggatg 180
agtttgaggt gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca 240
cgggcctcgc tgcaaatattg gaccgggcca aggctggact gctggagcgt gtgaaggagc 300
tacaggccga gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc 360
ccaaatacca tccaagatt atcgggagaa agggggcagt aattacccaa atccgggttg 420
agcatgacgt gaacatccag tttcctgata aggacgatgg gaaccagccc caggacccaa 480
ttaccatcac agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg 540
tgggtgaact tgagcagatg gtttctgagg acgtcccgtt ggaccaccgc gtccacgccc 600
gcatcattgg tgcccgcggc aaagccattc gcaaaatcat ggacgaattc aaggtggaca 660
ttcgcttccc acagagcgga gcccagacc ccaactgcgt cactgtgacg gggctcccag 720
agaatgtgga ggaagccatc gaccacatcc tcaatctgga ggaggaatac ctagctgacg 780
tggtggacag tgaggcgtg caggtataca tgaaaccccc agcacacgaa gaggccaagg 840
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ctcctgacat gagcagctct gaggaatttc ccagctttgg ggctcagggtg gctcccaaga 960
ccctcccttg gggcccaaaa cgataatgat caaaaagaac agaaccctct ccagcctgct 1020
gacccaaacc caaccacaca atggtttgtc tcaatctgae ccagcggctg gaccctccgt 1080
aaattgttga cgctcttccc ctttcccgag gtccgcaggg agcctagcgc ctggctgtgt 1140
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taaaccaagg tcatgagcat tcgtgctaag ataacagact ccagctcctg gtccaccg 1260
catgtcagtc agcactctgg cttcatcac gagagctccg cagccgtggc taggattcca 1320
cttcctgtgt catgacctca ggaataaaac gtccttgact ttataaaagc caaacgtttg 1380
ccctcttctt tcccacctc cctcctgcca gtttcccttg gtccagacag tcctgtttgt 1440
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gaagacctgg caatggacag caggaggcag gttcctggag ctnggggggtg acctgagagg 1560
cagagggtga cgggttctna ggcagtcctg attttacctg ccgtgggggtc tgaaarcacc 1620
aagggtccct gaccctacct ccactgcca 1649
```

<210> 153

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 153

```
ccggaaattc ccgggtcgac ccacgcgkcc gcggnagwgc tcacacgtgt gtcctctgcc 60
ctgtccttg ccccttgccc ggccgggctg tttctggcca tgggtcgctc ccgccggaca 120
ggcgcgacc gagcgactc tctagcccgg cagatgaagg cgaacggcgg cggccggact 180
```

```

tggatgagat tcaccgcgag ctgcggcctc agggatccgc acgaccccag cccgacccaa 240
acgccgagtt cgaccccagac ctgccagggg gcggtctgca ccgctgtctg gcctgcgcga 300
gggtacttcat cgattccacc aacctgaaga cccacttccg atccaaagac cacaagaaaa 360
ggctgaagca gctgagcgtc gagccctaca gtcagggaaga ggcggagagg gcagcgggta 420
tgggatccta tgtgcccccc aggcggctgg cagtgccac ggaagtgtcc actgaggtcc 480
ctgagatgga tacctctacc tgacatggcc tgaagatgca gggcagagga attgcccatt 540
gacagtgacg caaggactag gctgggaggg agcgtgccaa ccccttttgc ctctgggttt 600
ggggagcggg gggcctcttc ttggtgcctt gcccacaata aaggaactgg acaaagagaa 660

```

<210> 154

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 154

```

ggcagagctc caccttccat ccggcgccgg ctttcggcgc gacggtcgcc gcgttccatc 60
gtcgcgcggc ctttcggggc cccgagcccg caatgtcggg ccccaacgga gacctgggga 120
tgccggtgga ggcgggagcg gaaggcgagg aggacggctt cggggaagca gaatacgtg 180
ccatcaactc catgttgac cagatcaact cctgtctgga ccacctggag gagaagaatg 240
accacctcca cggccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt 300
tccagcagca gctcggggag gcccacagt atgccagccc ctaggctcca agagcccca 360

```



```

accgggaccc aaccctgcct ccctgggcta ggctctggcc tgggcactca mcccctggct 420
tagacamctt ctcaagggtt ggccttcang gaccctgggt gggctctgcct gcctgggcca 480
accttcctgc ctgggsctyc ccttggctam ctgggscagc cccaccaaac tggcatgccc 540
tcctgggggc caaagaatgg ggcctgcaac ccancantt gcntgcncaa cccaanttcc 600
tgggg                                           605

```

<210> 155

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 155

```

gaaccctaga aaaaaggatg cagtactaaa gtgtcattca ttcaaagcca ctccctctttt 60
ggtattccac ccattttcca gacggtgaca ctgaggctca ggaagcagta gggacttgca 120
caaagccctt tgggaagcag gctgggaaac agtggaggga ggggtgtccat tanccccaag 180
gagacacagg atctgggctc tktytttsgc cttcctccca gaatacgtg ccatcaactc 240
catgctggac cagatcaact cctgtytgga ccacctggag gagaagaatg accacctcca 300
cgcccgccctc caggagctgc tggagtccaa ccggcagaca cgcctggagt tccagcagca 360
gctcggggag gccccagtg atgccagccc ctaggctcca agagccccc accgggaccc 420
aaccctgcct ccctgggcta ggctctggcc tgggcactca ccccctggct tagacacctt 480
ctcaagggtt ggccttcang gaccctgggt gggctctgcct gcytgggcca cccttcctgc 540
ctgggrcctc cccttgkcc tactggggcc agccccacc acctggcatg ccctcctggg 600
gccaagagtg ggcctgcaam ccaccattg setgcccac caattcctgg gcgytcccca 660
wtytgcccag gcttgaatgt tcacatgaaa tgggt                                           695

```

<210> 156

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 156

```

cgggtgggctc gcgttgaggc tgcggctcatg gagggagcag gagctggatc cggcttccgg 60
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120
ggggacgcgc tgcagctcat ggtggagttg ctgaaggctc tcgttggtga agcagcagtc 180
cgcggcgtgc ggcaggccca ggcagaagac gcgctcctg tggacgtgga ccagctggag 240
aagggtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300

```

agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggg 360
aggggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540
atgccacccg gggtcctaca ggcagggtgt gggaaaggcc tggccagcag gtagcctgtg 600
tgtttgacaa acagcagctg gcagcgtgc ctccctgccca cattcctgcc acccgacatc 660
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720
ctataaattt gttctcacia agcaacatca ataatcaaaa actgtctcty ccaaaaaaaaa 780

<210> 157

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 157

aacttcagtg ccctcactgt agaatttaaa agccttactg ttgattgccc atggtggact 60
tgatggagaa attaaatata tttcattatg ctttataaaa tactgtatat gtttcagcaa 120
gtttggggaa tgggagagga caaaaaaag ttacatttaa tctatgcatt ttgccaagc 180
catattgagt tattttacta ctagagacat taggaaacta actgtacaaa agaaccaagt 240
ttaaaagcat tttgtggggt acatcatttc tataattgta taatgtattt ctttgtgggt 300
ttaaatgata aagacattaa gttaacaaac atataagaaa tgtatgcact gtttgaaatg 360
taaattattc ttagaacact ttcaatgggg gttgcattgt ccttttagtg ccttaatttg 420
agataattat tttactgcca tgagtaagta tagaaatttc aaaaaatgta ttttcaaaaa 480
attatgtgtg tcagtgtgtt tttcattgat aattggttta atttaaaata ttttagaggtt 540
tgttggactt tcataaattg agtacaatct ttgcatcaaa ctacctgcta caataatgac 600
tttataaaaac tgcaaaaaat gtagaagggt gcaccaacat aaaaaggaaa tatggcaata 660
catccatgat gttttccagt taacatagga attaccagat aaatactgtt aaactcctgt 720
ccagtaacaa gagttgattc atatggacag tatgatttat tgtttatttt tttaaccaa 780
tacctcctca gtaatttata atggccttgc agtaatgtgt atcagataag aagcactgga 840
aaaccgatcg tctctaggat gatatgcatt tttcaagtgg tattgaaagc cgcactgatg 900
gatatgtaat aataaacata tctgttatta atataactaa gactctgtgc tcatttaatg 960
agaaataaaa gtaatttatg gatgggtatc tttaattttt actgcaatgt gttttctcat 1020
ggctgaaatg aatggaaaac atacttyaat tagtctctga ttgtatataa atgtttgtga 1080
aattccatgg ttagatataa gtgtrttggg aanaattctc catggggg 1127

<210> 158

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (732)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1279)
<223> n equals a,t,g, or c

<400> 158
tgctctacaa atagtaaaaa taaaaaataa aaaaagtagc tgggcgtggt ggtgtgcacc 60
tgtgggtccca gctgcttggg atgctgaggt ggaaggatct cttaaaccga ggaggggtggn 120
aggctgcagt gaacttgcca ttgcaccact ggcactccag tctgggggac agagtgcagc 180
cccattctcaa aaaagtgttt aattnantat acttgtgagt ggtctatttg catttnaaaa 240
ctgctttcta gaattaggat agctccctta ggtttaatgt tttggtgagc aggaatatca 300
gttacccttc cagatcttaa ttctagtttt tttatcactt tttcatgagg tgatctcacc 360
ctcatctcct agcatgtctg gcaattttga tttctgaact ctgtgctacc tcagaggcca 420
gcttccttag ggaaaaatca gtgctgaaat aaagtatat ttccttttct gctctaaata 480
tatagtggg gaataagaga aatgaagagg aattcctgag aacgtaatta ctgaaactc 540
ccctctccca cgtaatgtct ctccacacacc atggaccctt attcccccaa tttgcgaccc 600
cccacccac cccacaacag gtggtgatct ttgtgaagtc tgtgcagcgg tgcattgcct 660
tggcccagct actagtggag cagaacttcc cagccattgc catccaccgt gggatgcccc 720
aggaggagag gntttaaaga ttttcaacga cgaattcttg tggctaccaa cctatttggc 780
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gacacctacc tgcacgggt ggccagagca ggccggttg gcaccaaggg cttggctatc 900
acatttgtgt ccgatgagaa tgatgccaag atcctcaatg atgtgcagga tcgctttgag 960
gtcaatatta gtgagctgcc tgatgagata gacatctcct cctacattga acagacacgg 1020
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ggggtgaagg agacactact gccccaccc ctgacagccc ccaccccatg gcttccatct 1140
tttgcatcac caccactcct gaaccccat ttctgatttg tcagaatttt tttttaacaa 1200
aactaaaaat gaaacacatg tgtctgtggt atctaaaaaa aaaaaaaaaa aaawwggggg 1260
gsggcccgta cccattggnc ct 1282

<210> 159
<211> 1505
<212> DNA

<213> Homo sapiens

<400> 159

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ttacatgttg cagaagctaa ttgaagagac agataggttt gtagtggtca cagaagagga 60
atcaggcatg agtgaccagt tgtgtggcat tgctgcctgc cagacggatg acatatacaa 120
ccgaaactgc cttattgaat tggtaacct gtcagatggg tcttcgtgga gcagagacak 180
aaggctgtgt catttgtgtca gctgcccagg cccaactgct gcagtggcag caccatccag 240
cctggtatgg tgatacattg aagcaaaaaga catcctggac ttgcctcttg gatggcatgc 300
agtactttgc caccactgaa agcagcccca cagagcagga tggccgacag ctctgggttag 360
aggtgaagaa tatcgaggag caccggcagc gtagtctgga ctctgtgcag gagctgatgg 420
agagtgggca ggcagtgggc ggcatgggta ccacaaccac agattggaac cagccagctg 480
aggcacagca agcccagcaa gtccagcggg tcatttcgcg ttgcaactgc cgaatgtact 540
atattagtta cagccatgac attgatectg aactagcaac tcagattaag ccacctgaag 600
ttcttgagaa ccaggaaaag gaagatctcc taaagaagca ggaaggggct gtggatacct 660
tcacccttat ccaccatgag ctggaaattt ccaccaaccc agctcagtat gccatgatcc 720
tggacattgt caacaacctg ctgctccatg tagaacctaa gcggaaggaa catagtgaga 780
agaagcaacg ggtcagggtc cagcttgaga tctctagcaa tccagaggag caacgcagca 840
gcatactgca ttgacaggag gctgtgcggc agcatgtggc ccaaatacga cagctggaga 900
agcagatgta ttctatcatg aagtctttgc aggatgacag caagaatgag aatctgcttg 960
acctgaacca gaagcttcag ttgcagctaa accaggagaa ggccaacctg cagctggaaa 1020
gtgaagaact gaatatcctc atcagggtgt ttaaggattt ccaactgcag cgggctaaca 1080
agatggagct gcgaaagcac aagaagatgt gagtgtggtc cgtcgactg agttttactt 1140
tgctcaggca cgggtggcgc tgacagagga agatggacag ctgggaattg ctgaattaga 1200
actgcagagg ttcctctaca gcaagggtgaa taagtctgat gacacagcag aacatcttct 1260
ggagttgggc tggtttacca tgaacaacct cctccccaat gctgtctata aggtagtact 1320
gcggccccag agtcctgcc agtctgggcg acagctagct ctccgcctct tcagcaaagt 1380
tcggccccct gttgggggta tctctgttaa ggagcatttt gaggtaaatg tgggtgctctc 1440
accatccagc tgacacacca ttcttcaca gatgatgggc ttttctttcc tggccgaagt 1500
tgga 1505
```

<210> 160

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<400> 160

```
aggcacgagg gacacttggg gtctggacgc aacggcggcg ggagcatgaa cgcccccca 60
gccttcgagt cgctcttgct ctctcagggc gagaagatca ccattaacaa ggacaccaag 120
gtaccaaatg cctgtttatt caccatcaac aaagaagacc acacactggg aaacatcatt 180
aatcacgtg cctgcttccc ctctgccttc tgccgtgatt gtcagtttcc tgaggcctcc 240
ccagccacgc ttcctgtaca gcctgcagaa ctgtgagtca attaaacctc ttttcttcat 300
```

```
aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt cctttctatt catctctatt 420
tcctgggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480
tgttctgcta gtaaatagtt gaaggttgat cattgatctt ctgctgtttc agtctggcat 540
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctggtgggt ggcgggggta 600
gtccaggctt gtcttgcaac tgtatgttct ctccagacct ctccctggcg atgccagatt 660
cactgggctg gcagattctg cccccccaa aaaaaaaaaa aaaatattaa taataaanaa 720
aanagactcc caggga 736
```

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

```
gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctgcgccttg cgaasgggnc 60
```

```
tccggctcgg ctgcggggga ctgtgcacga ggttggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttgg 240
agctgggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtgg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgccggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc ctgaccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgctcctc ttgcatcctg agtggctcgt ggccactggc tggaggttta agaagcgccc 540
aggcatcgag acctgttcc agcagcttgc ccctttatat gaaattgtca tctttacgtc 600
agagactggc atgactgctg ttccactcat tgatagtgtg gacccccatg gcttcatctc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
atgtctgaat cgggacccag ctcgagtagt agttgtggac tgcaagaagg aagccttccg 780
cctgcagccc tataacggcg ttgccctgcg gccctgggac ggcaactctg atgaccgggt 840
cttggttgat ctgtctgcct tcctcaagac cattgcaactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttgc 960
aaacagcggc aaancgggct tagaagcagg gagga 995
```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```
gccctagtag ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgccgc gctggcgaca gtccgggttg cgagcggccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgcagacgga ggcccccgct cctgtcagcg 300
tgacgcccc gtcccagtay gacataccca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggcagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgcag 480
cccaagcgca gggctctgcat gtgaccagca tctcctggaa ctccactggc tctgtggtgg 540
cctgtgccta cggccggctg gaccatgggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggaccggcga gacctgcgtc cccagcaacc gtcggccgtg gtggaggtcc 660
ccagcgtgt cctgtgtctg gccttcacc ccacgcagcc ctcccagtc gcaggagggc 720
tgtacagtgg tgaggtgttg gtgtgggacc tgagccgtct tgaggacctg ctgctgtggc 780
```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgccc 840
agcctgggca cagccamcgg ttycaggtgc tkagtgtggc cacygacggg aaggtgctac 900
tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtggggcg 1020
canggcaggc tttcttccag tttgacctca ggttttcatt ttggcaggaa gcggttnccg 1080
ttcaattttc ctggcattgg agagcagcct taaggggtgc ccatt 1125

```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgaccc acgcgtccga gatggcggtt cgcagcaaga ggccggagca cggcggggcc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acggatgatt 120
gatgtccaga ccaaaatggc tggcgagct ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttggatatt ggctgtggtt ctgggctgag tggagattat ctctcggtg 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgcg gccttggacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

acccacgcgt ccggcggctg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctccccca ccaccacagc cccccacca tcaagcttca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctct cgcsggcaac gtggtcccaa gccactgcc 180
cactcgccgg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccgggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggccccgac atcttcctgc acatctctga tgtggaagg gagtatgtcc cagtgggaagg 360
cgacgaggtc acctataaaa tgtgtcccat cccaccaag aatgagaagc tgcaggccgt 420
ggaggtcgtc atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaagcacc ccttgcctg tgcttgtggg agactttgcg 540
gggaggaggc agcagacact ggagatgaca ttcttcaca cgagacgggg cttcagccgg 600
gcatggtccc tctcaagtat ctcttgagg aaggggtatg gggggcaggt gtggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccatttgaag 720
agcattaaaa gcatttaaaa aggaragggt cccactgggt gctgagtgga ggttccaacc 780

```

```

ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atgggctcaa 840
cccacagaat ccctcttcct cctggagctg gaggccccag attcccagat ctggccccct 900
ggcagcctga cagggacctt gcgtgacttc tccaaggcaa atttccacct aagtgccctt 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggcttgg ttggttctag 1020
gggagctggc ttgaagtggg kggggaaagg cgggggtggc ggtctttgga ttggacggat 1080
gttgccctttt ggtgcctttg cagtgggagg cggcatagct gcctgtctgg ggaagacagt 1140
tctcccagca ctcccacccc tgggcacagc aggtcgttac tgggaggctg aacctctctt 1200
agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agcccctgta attatggcgg cggggggctg ggggtggtgt ggtgggaagg gcttgtggag 1320
aggacacagt ctttgtttaa aaactttgtc ccgatccatc cagaaaagag taggtagctt 1380
gcatacctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttctttt aaaactagtg ttaagaaatg cttagggatt ttttttttct tatttttcat 1500
aactaaagct ttcacccaga gccggctctg tttgcacttt gctgccgaca ttgcaaactt 1560
tttgccaggg tgggagactg agtctcatte tgtcamccag gctggagtgc agtngcccga 1620
tctcagcttt actgcaacct ct 1642

```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

```

aggaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccaccc tgagtgtcag cccagaaatg gctcagtgc ctgttttggg ccggaggctg 120
accagtgtgt ggcctgtgcc catcaagtgg atggcgctgg agtccattct ccgccggcgg 180
ttcacccacc agagtgatgt gtggagtatt ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gatcccagcc cgggaggatc cctgacctgc tggaaaaggg 300
ggagcggctg cccagcccc ccatctgcac cattgatgtc tacatgatca tgggtcaaag 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgtktg aattctcccc 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagaccag 480
tcccttgga cgcaccttct accgctcact gctggaggac gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaag aggaggcccc caggctctcca ctggcaccct 720
ccgaagggct ggctccgatg tattttratg tgacctggga atgggggcag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagtgagg accccacagt 840
acccctgccc tctragactg atggctacgt tgccccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcggcccca gcccccttcg ccccgagagg gccctctgcc 960
tgctgcccga cctgctggtg cactctgga aaggscgaag actctctccc cagggaagaa 1020
tggggtcgtc aaagagtttt tgcctttggg ggtgcctggt agaaccgccg gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115

```


<210> 166
<211> 1066
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (739)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1023)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1025)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1042)
<223> n equals a,t,g, or c

<400> 166
gggcacgagn cacctgagcc ccttgctctcg caccggctcc caggagggca cctccatgga 60
gggctcccgc cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtggcta 120
ctccaggcat tgacaagctg accgagaagt cccaggtgtc agaggatggc accttgcggt 180
ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240
gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300
caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgaggc 360
tgctgcaggt gctggttccg cagtggagaa gatctgcatc gacaagggcc tgacggatga 420
gtctgagatc ctgcggttcc tgcagcatgg caccctggtg gggctgctgc ccgtgccccca 480
ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540
catgtggggc gtcattatc tgaggaaatgt ggacccccct gtctggtacg acaccgacgt 600
gaagctgttt gagatacagc ggggtgtgag atgaagccga cgaggggctc agtctagggg 660
aaggcagggc cttggtccct gaggttccc ccattccacca ttctgagctt taaattacca 720
cgatcagggc ctggaacang cagagtggcc ctgagtgtca tgccctagag acccctgtgg 780
ccaggacaat gtgaactggc tcagatcccc ctcaaccctc aggctggact cacaggagcc 840

126

```

ccatctctgg ggctatgccc caccagagac cactgcccc aacactcggg ctccctcttt 900
aagacctggg ytcagtgtg gccctcagt gccaccact cctgtgtac ccagcccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaagggg ggtttttgaa ccaaggggga 1020
aancnacggg gcctggttcc cntttggaaa ggttccctt gggaaa 1066

```

<210> 167

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 167

```

gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggctcgcag gatggatccc gtaccggga cagactcggc gccgctggct 120
ggcctggcct ggctgtcggc ctctgcaccc ccgccgggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccgcaaga gaacgtggtg gccgatatacc 300
agatcgtggt ggacaagagc cccctgccgc tgggtttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkggar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggctttg ccatctggtg caagaaaggc caaggccccc 540
aggccagttg cccaaagccc cgaagtccct agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttgg aagccggaca agcgttc 657

```

<210> 168

<211> 1026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 168

```

ggcacgagga gagatggagg ggcggcaggt gctggagggtc aagatgcagg tggagtacat 60
gtcattcagc gcacacgcgg acgccaaggg catcatgcag ctggtgggcc aggcagagcc 120
gkagagcgtg ctgctggtgc atggcgaggc caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgctgcc 240
cacaagcccc agcatccccg taggcattctc gctggggctg ctgaagcggg agatggcgca 300
ggggctgctc cctgaggcca agaagcctcg gctcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctggtgt cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgcgc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgcgcgtc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggaccc 600
aggcaccaag gtgctgctgg tctcctggac ctaccaggac gaggagctgg ggagcttcct 660
cacatctctg ctgaagaagg gcctcccca ggccccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcagggtcc catccctggg gacagaggcc ttgtgtcacc 840
tgccctgcca ggcagctgtt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggcctttag nggggggttt 1020
aaatta                                           1026

```

<210> 169

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 169

```

ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggcctttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180

```

```

acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgtcatgttt 240
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300
tgggccatgg aggacaagca ggagatgggt gacatcatcg agacggtgta ccgcggggcc 360
cgcaaargcc gcggcctggt ggtgtcccc aaggactact ccaccaagta ccgctactga 420
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540
attgataaca tgggtcttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660
tcttaccctt ggagtaaaac gaaggtgttt atcctgtgag cctgtgcgtt ttgcatactg 720
ggttggtttn ctngggcttc ggtgacagca tatnccgcga gctgggcttt aaca 774

```

<210> 170

<211> 402

<212> DNA

<213> Homo sapiens

<400> 170

```

ggcacgagcg gcggtggggc ggacagccgg ggtgcgcact tgggcccccc tggccatggc 60
ggcgaagggt gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaaggg 120
cctgagtgag aagcagcggg aggaacatta ctctgcaag gactttgtca ggctgaagaa 180
gatcccgaca tggaaaggaga tggcgaaaag ggtggctgtg aagggtggag agcccaggta 240
taaaaaggac aagcagctca atgagaaaat ctccctgctc cgcagcgaca tcaccaagct 300
ggaggtggac gccatcgta acgccgcaa cagctccccg ccccgaggga gcctaattaa 360
agatcttcgt tgtggcaaaa aaaaaaaaaa aaaaaaaaaa aa 402

```

<210> 171

<211> 796

<212> DNA

<213> Homo sapiens

<400> 171

```

aggcatcggg gacagccgct gcggcagact cgagccagct caagcccga gctcgcaggg 60
agatccagct ccgtcctgcc tgcagcagcc caaccctgca caccacccat ggatgtyttc 120
aagaagggtc tctccatcgc caaggagggc gtggtgggtg cgggtggaaa gaccaagcag 180
ggggtgacgg aagcagctga gaagaccaag gagggggtca tgtatgtggg agccaagacc 240
aaggagaatg ttgtacagag cgtgacctca gtggccgaga agaccaagga gcaggccaac 300
gccgtgagcg aggctgtggt gagcagcgtc aacactgtgg ccaccaagac cgtggaggag 360
gcggagaaca tcgcggtcac ctccggggtg gtgcgcaagg aggacttgag gccatctgcc 420
ccccaacagg agggtgaggc atccaaagag aaagaggaag tggcagagga ggcccagagt 480
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tcttgccctc gtctccctgg ccacccttgg cctgtccacc tgtgtctgtg caccaacctc 660
actgccctcc ctcgggccca cccaccctct ggtccttctg accccactta tgctgtgtgt 720
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aaaaaaaaag gggccc 796

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<210> 172

<211> 478

<212> DNA

<213> Homo sapiens

<400> 172

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tacaggccag cgtggatgac ctgaagagcg ctccctctgcc ttggacacca tccccctcta 240
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attccaaata aaacttgagc ccactcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 478

<210> 173

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 173

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ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cggtgtttac aaggaggtga 120
tcatctacaa cctctgccag aagcaggtgg tggagaagat accactgccc ttttttgcca 180
tgtccctgag cctgtccccc gggaccaccc tcctggctgt tggttttgcg gactgcatgc 240
tgaggctggt agactgtgcc atggggactg cccaagactt tgccggccac gacaacgcag 300
tgcacctgtg caggtttaca cctccgcca ggctgtctct cacggccgcc cgcaacgaga 360
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acgcctggtc atgccaggca cctggacaca ggcttggcag aggcgccagg ttgtcaatgg 480
cctcatgtcg ggacaggcca ggattcacgt aaatcgccct gagcaagctg ttgtaaatgt 540
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tatcttgtaa taaacatggg catttattgc aaaaaaaaaa aaaaaaaaaa aaaaaa 656

<210> 174

<211> 1891

<212> DNA

<213> Homo sapiens

<400> 174

gagccccctc cgagagggga gaccagcggg ccatgacaag ctccaggctt tggttttcgc 60
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ggagtcagtg gagaattata ccctgacatc aaatgatgac cagtgtttac tcctctctga 420
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tgagggcaca ttctttatca acaagactga gattgaggac tttccccgct ttcctcaccg 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1891

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<210> 175

<211> 2161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 175

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cggttgaaaa actgtggctg tttaggagct tctccaaatt tggagcagtt acaagaagaa 180
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attaaggctg catatccaga tttgaaaaat cctcctctgc tagtgacacc aagtcagcag 360
gccaaagtgt gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
aaggaacaga aagttaatcc aagagaaatt gctgaaaaca ttaccaaaaca cctcccagac 480
aatgaatgta ttgaaaaagt tgaattgct ggtcctggtt ttattaatgt ccacttaaga 540
aaggattttg tatcagaaca attgaccagt cttctagtga atggagtcca actacctgct 600
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gcaggggatg acgtgctcag gttaaatcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

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tggaagctta tctgtgatgt ctcccgccaa gagttaaaata aaatctatga tgcattggac 1020
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<210> 176

<211> 2411

<212> DNA

<213> Homo sapiens

<400> 176

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gccagagaaa aaggtagaat ggacaagtga cactgtggac aatgaacaca tgggccgccg 180
ctcatcmaaa tgcctgtgta tttatgagaa acctcgggcc tttggcgaga gctccacgga 240
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<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

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gcagaatggc cttgcttgag gtttttgcaa atctctcggg tgtctggctt agtgggaggc 180
agctgggccc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240

```



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ctttgtggag aaccgctggt gtctgaagcg ggtgtcagcc cactgcacc ttggtcttct 420
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tacggttatc cggaagctaa caatttcatg tgnngttgga ggacgacaa tgggggacaa 1260
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<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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cctctaaagc tgagagcttg attccagggc ctgccctgct cctggtggca cccagtggcc 120
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa      1614

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<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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aacagtcaaa cttatttttg taatgtatgt tattgtgtga tgcagttttt tgcttctgtc 4200
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<210> 180

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 180

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cagctcctcr cgccatcacc atcgccgccc ccggttccac ctrccccaac agcccctgct 120
ccagagggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180
ggagcagaca ctgctgaagc ccaagtgaga aaccacggcg ctttggcgtg taacntggaa 240
tat                                     243

```

<210> 181

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 181

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tggccaagga caactgggtg ctgtcctcgg agatcagtca ggtccgcctg tacactctgg 120
aggatgacaa gttcctctcc ttccacatgg agatgggtgg gcatgtggat gcagmccagg 180
ccttcctgct gctctcggac ctgmgtcaga ggccagagtg ggacaagcac taccggagcg 240
tggagctagt gcagcaggta gacranggac gacgccatct accacgtcac cagmcctgmc 300
ctcggagggtc acacaaagcc ccaggacttc gtgatcctgg cctcgaggcg gaagccttgt 360
gacaatgggg acccctatgt catcgcgctg aggtcgggtca cgctgcccac acaccgagag 420
acgccagagt acagacgcgg agagaccctc tgctcaggct tctgcctctg gcgcgagggg 480
gaccagctga ccaaggtagc ctgtagtaga ctcgggtcct gtccacagcc ctagctgcca 540
gcaatgctgt cctcacagag gcatagtcgc ccccagctgg gttgtgctcc actgtgacgg 600
tggccccggg ggaggatgcc agcagcctgc ctatggytgc cagctgtgct gtgagccag 660
cagcatggcc tgcatctggg aagggacaca ggttgctccag agcccctggc acaactgctg 720
agncanatgc tgtggagnca gctgttaccc tgtaagccac tggcccagca cctgcctaca 780

```

gggccagcct ggtggccaca gtgcacgtgg ggg

813

<210> 182

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 182

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gggttttacat gaccgcagtc gccctcagtt tcacccngta ggaatcggnc tggggatgca 60
ccgtgctact ctcttcctcc aggccgggtcc ccggcgcggtg cgcgcgatcc atgtccatgt 120
ccgcgcctat caataaagtt gctcacttgt tgccggccccg ctagmccgaa aggttgcgcg 180
cgcagmccga gaagtctcgc gatagccagc cgcgggctgcc cttgcgcttc ccgagctggc 240
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gggatatccc cgatggcacc gattgccacc gcaaagccta cagcaccacc agtattgcca 360
gcgtcgctgn cctgaccgcc gctgcctaca gagtcacact caatcctccg ggcaccttcc 420
ttgaaggagt ggctaagggt ggacaatata cgttcactgc agctgctgtc gggggcgtgt 480
ttggcctcac cacctgcata agcgcccatg tccgcgagaa gcccgacgac cccctgaact 540
acttcctcgg tggtgcgcc ggaggcntga ctctgggagc acgcacgcac aactacggga 600
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tgaggggctg ggaggtgttt gcaaaaccca aggtgtgagc cctgtgcctg ccggggacctc 720
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aaaaaaaaat yggggggggg cccskaacca attkccctta ag 822

```

<210> 183

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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gccagttcca gcccgcaccc cgcgtcgggtg cccgcgcccc tccccgggcc ccgccatggg 120
cctcaccgtg tccgcgctct ttctcgcgat ctctcggaag aagcagatgc ggattctcat 180
ggttggcttg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtcaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
ccagaacact cagggcctca tctttgtggt ggacagtaat gaccgggagc ggggtccaaga 420
atctgctgat gaactccaga agatgctgca ggaggacgag ctgcgggatg cagtgtctgt 480
ggtatttgcc aacaagcagg acatgcccac cgccatgccc gtgagcgagc tgactgacaa 540
gctggggcta cagcacttac gcagccgcac gtggtatgtc caggccacct gtgccaccca 600
aggcacaggt ctgtacgatg gtctggactg gctgtcccac gagctgtcaa agcgctaacc 660
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tcccggactc ctcaggcagt gccctttcct cccacttttc ctccccata gccacaggcc 780
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gngggggggc ccgna 1095
```

<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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tcgtgtcaa tggaaacccc ctgctgcatg cacagctccg gcagctccca gcgatgacgg 120
ccctgcagac cctgcacctg cggagaccca gcgcaccag agcaacctgc ccaccagcct 180
ggaggggtctg agcaacctcg cagacgtgga tctgtcctgc aatgacctga cacgggtgcc 240
cgagtgtctg tacaccctcc ccagcctgcg ccgcctcaac ctccagcagca accagatcac 300
ggagctgtcc ctgtgcatag accagtgggt gcacgtggaa actctgaacc tgteccgaaa 360
tcagctcacc tcaactgcct cagccatttg caagctgagc aagctgaaga agctgtacct 420
```

```

gaattccaac aagctggact ttgacgggct gccctcaggc attggcaagc tcaccaacct 480
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cccaaagctg aggaaacttg tcctgaacaa gaaccacctg gtgacctcc cagaagccat 600
ccatttcctg acggagatcg aggtcctgga tgtgcgggag aacccaacc tggatcatgcc 660
gccaagccc gcagaccgtg ccgctgagtg gtacaacatc gacttctcgc tgcagaacca 720
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<210> 185

<211> 1040

<212> DNA

<213> Homo sapiens

<400> 185

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cccagcccac aatgacccag acctctagct ctcagggagg ccttggcggg ctaagtctga 180
ccacagagcc agtttcttcc aaccaggat acatcccttc ctcagaggct aacaggccaa 240
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catttggtgt tatcagcttc attgtcatcc tgggtggtgt ggtgatcatc ctagttggtg 480
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```

<210> 186

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<400> 186

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accacgcgt ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180
catgggggag aagccagtgg ggagcctggc tgggattggt gaagtcctgg gcaagaagct 240
ggaggaagg ggttttgaca aggcctatgt tgccttggc cagtttctgg tgctaaagaa 300
agatgaagac ctcttccggg aatggctgaa agacacttgt ggcgccaacg ccaagcagtc 360
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cccgcccca tccctcacc ccacctcac tttcaatccg tttgatacca tttggctcct 720
tttttggcag aacagtcact gtccctgtaa agttttttag atcaataaag tcagtggctt 780
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817

```

<210> 187

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 187

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ctgccctgct gctggaacac cgagccagcc tgagcgctaa ggaccaagac ggctgggagc 60
gctgcacgcc gcggtactg gggccaggtg cctggtggag ctgctcgtgg cgcacggggc 120
cgacctgaac gcaaagtccc tgatggacga gacgcccctt gatgtgtgcg gggacgagga 180
ggtgcggggc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgccagag 240
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gaggcggtg agcctaacc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360
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ccagacaggc gcagagctca ggccgccgcc cccggargag gacaacccc aagtggtcag 480
gccgcacaat ggccgagtag ggggctcccc agtgcggcat ctatactcca agcgactaga 540
ccggagtgtc tcctaccagc tgagccccct ggacagcacc acccccaca ccctggtcca 600
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<210> 188

<211> 1286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

<400> 188
gcatgattct tgtttttag agatgcaggc tcaaaaagta atgcatgttt cttcagcaga 60
actgaattat tcaactgcat atgactctaa acaccaaata cgtaatgcct ctaatgtaaa 120
gcaccatgac tctagtgtct ttggtgtata ttcttacata ccttttagtg aaaatcctta 180
tttttcatca tggcctccaa gtggtaccag ttctaagatg tctcttgatt tacctgagaa 240
gcaagatgga actgtttttc cttcttctct gktgccaaaca tcctctacat ccctcttctc 300
ttattacaat tcacatgatt ctttatcact gaattctcca accaatatct cctcactatt 360
gaaccaggag tcagctgtac tagcaactgc tccaaggata gatgatgaaa tccccctcc 420
acttctgtga cggacacctg aatcatttat tgtggttgag gaagctggag aattctcacc 480
aaatgttccc aaatccttat cctcagctgt gaaggtaaaa attggaacat cactggaatg 540
gggtggaaca tctgaaccaa agaaatttga tgactctgtg atacttagac caagcaagag 600
tgtaaaactc cgaagtctta aatcagaact acatcaagat cgttcttctc cccacctcc 660
tctccagaa agaactctag agtccttctt tcttgccgat gaagattgta tgcaggccca 720
atctatagaa acatattcta ctagctatcc tgacaccatg gaaaattcaa catcttcaa 780
acagacactg aagactcctg gaaaaagttt cacaaggagt aagagtttga aaattttgcg 840
aaacatgaaa aagartatct gtaattcttg cccaccaaac aagcctgcag aatctgttca 900
gtcaaataac tccagctcat ttctgaattt tggttttgca aaccgttttt caaaacccaa 960
aggrccaagg aatccaccac caacttgga tatttaataa aactccagat ttataataat 1020
atgggctgca agtacacctg caaataaaac tactagaata ctgctagtta aaataagtgc 1080
tctatatgca taatatcaaa tatgaagata tgctaagtgt ttaatagctt taaaagaaa 1140
agcaaatgc caataagtgc cagttttgca ttttcatatc atttgcattg agttgaaaac 1200
tgcaataaaa agtttgtcac ttgagcttat gtacagaatg ctatntgggg aacnctttta 1260
ggatgggttt tatttttcca tttttg 1286

<210> 189
<211> 1738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1480)
<223> n equals a,t,g, or c

<400> 189
gcggcgccct cggagccaaa ggcgcgcggc ggacacggcg gggccctcgc gcgcctggag 60
acgatgccaa agctgcaggg cttcagattc tggagccgca ccctgcgagg ggcccgccac 120
gtcgtggccc ccattggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180
ggggcacagc tctgctacac gcccatgctg catgcccagg tctttgtccg cracgccaac 240
taccggaagg agaacctgta ctgcgaggtg tgccccgagg accggccctc catcgtgcag 300
ttctgtgcca atgacctgga ggtgtttgtt caggcggctc tcctggctca ggattactgt 360
gacgccattg acctgaactt gggctgcccc cagatgatag ccaagagagg tcactatggc 420

gcctttctgc aggacgagtg ggacctgctc caaagaatga ttttgctggc ccacgagaaa 480
ctctctgttc ctgtcacgtg caaaatccgt gtcttcccg agattgacaa gaccgtgagt 540
acgcccagat gctggagaag gccggctgcc agttgctgac ggtgcacgga cgcaccaagg 600
agcagaagg gcccctgtcg ggtgcagcgt cctgggagca tatcaaggct gtgcggaagg 660
ctgtggccat ccctgtgttt gctaacggga acatccagt cctgcaggac gtggagcgt 720
gcctccggga cacgggtgtg cagggcgtca tgagcgcaga gggcaacctg cacaacccc 780
ccctgttcga gggccggagc cctgccgtgt gggagctggc cgaggagtat ctggacatcg 840
tgcgggagca cccctgcccc ctgtcctacg tccgggcca cctcttcaag ctgtggcacc 900
acacgctgca ggtgcaccag gagctgcgag aggagctggc caaggtgaag accctggagg 960
gcatcgctgc tgtagccag gagctgaagc tgcggtgtca ggaggagata tccaggcagg 1020
agggagcgaa gccaccggc gacttgccct tccactggat ctgccagccc tacatccggc 1080
cggggcccag ggaggggagc aaggagaagg caggtgcgag cascaagcgg gccctggagg 1140
aagaggagg tggcacggag gtcctgtcca agaacaagca aaagaagcag ctgaggaacc 1200
cccacaagac cttcgacccc tctctgaagc caaaatatgc aaagtgtgac cagtgtggaa 1260
acccaaagg caacagatgt gtgttcagc tgtgccgag ctgctgcaag aagcgagcct 1320
ccaaagagac tgcagactgc ccaggtcacg gattgctttt taaaaccaa ttggagaagt 1380
ctctggcctg gaaagaggcc cagcctgagc tgcaggagcc tcagccagca gcacctgga 1440
caccagggtg cttctccgaa gtcattggca gtgccctggn ctgaaggccc acaaccccca 1500
ccccaggac tgcctgtgga gcctggacac gtcctactta agaaaatgcc ttttactcag 1560
ggaatctcct gctacttaat gtggaaagac acgcccagc ccccttcgc ccactctggg 1620
ggcctggaaa tgctgcagtg gggagcaggc cccaggctgg acctgccctg tcctcagcac 1680
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaaa aaaaaaaa 1738

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

agcacatcaa atgccccac tccaagtacg ggtgcacgtt catcgggaa caggacactt 60
acgagacca cctggagact tgccgcttcg agggcctgaa ggagtttctg cagcagacgg 120
atgaccgctt ccacgagatg cacgtggctc tggcccagaa ggaccaggag atcgcttcc 180
tgcgctccat gctgggaaag ctctcgga agatcgacca gctagagaag agcctggagc 240
tcaagtttga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagtcc 300
ggcgggacgc atccatgtta aatgacgagc tgtccacat caacgcgag ctgaacatgg 360
gcatcctagg ctctacgac cctcagcaga tcttcaagt caaagggacc tttgtgggcc 420

```

accagggccc tgtgtggtgt ctctgctct actccatggg tgacctgctc ttcagtggct 480
cctctgacaa gaccatcaag gtgtgggaca catgtaccac ctacaagtgt cagaagacac 540
tggaggggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gtctctgcaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggcca tgacaacccg gtgtgcacgc tgggtctcctc acacaacgtg ctcttcagcg 720
gctccctgaa ggccatcaag gtctgggaca tcgtgggcac tgagctgaag ttgaagaagg 780
agctcacagg cctcaaccac tgggtgcggg ccctggtggc tgcccagagc tacctgtaca 840
gcggtcctta ccagacaatc aagatctggg acatccgaac ccttgactgc atccacgtcc 900
tgcagacgtc tgggtgcagc gtctactcca ttgctgtgac aaatcaccac attgtctgtg 960
gcacctacga gaacctcatc cacgtgtggg acattgagtc caaggagcag gtgctggacc 1020
tcacggggcca cgtgggcacc gtgtatgccc tggcggtcat ctgcagcgca gaccagacca 1080
aagtcttcag tgcacctac gaccgggtccc tcagggtctg gagtatggac aacatgatct 1140
gcacgcagac cctgctgcgt caccagggca gtgtcaccgc gctggctgtg tcccggggcc 1200
gactctcttc aggggtgtg gatagcactg tgaaggtttg gacttgctaa caggatccag 1260
gccaggctgt ggtttcccct gaaccagccc tggaccttcc tgagccaggc tggccacatg 1320
gggtggtctc ggggtttctg cctgccccgt gggcataggt ggacaggctc tggcagccgg 1380
gcagtgcctt ccccgctcca tgctcggcga gcctccctct actcggcact gtccctgtctg 1440
cccagcccct ctctgggtgc caggtagcag gcttgccccg gccaccctc catccccacc 1500
ctccatcccc accctagatg gagcgagggc ctttttactc accttttcta ccgtttttag 1560
actgtatgta gatttggtta cctcctggtt gaaataaatg ctccacagac tgtggctgtg 1620
agtggggaca gctcctcggg acaagggggc tgtgtgtggc cttgaggttg gtgtgcacag 1680
gcactggctg ctgtgagtgg gggggcatgg ggaggtttcc ttggtggac ccaggaytt 1740
cggscamtcc cggggsctcc cctccctgct aggaggcaca ccctcagagg agctgcaagc 1800
ccgtggctgc ctgtacatg ccctgcttnc acgtggctgc acgtgacac acccacattc 1860
accaaaccce cccgngccct gggacgcaac cacgccagga ggaggacacn ggccgccgag 1920
agc 1923

```

<210> 191

<211> 250

<212> DNA

<213> Homo sapiens

<400> 191

```

ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat catataattt cagaacttaa 120
tcagtgcctt tacatttgtt ttttctttta tgctagtggg aaatggagga tgaaratata 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250

```

<210> 192

<211> 1902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1901)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 192

```
ngggacgntg gtagaccanc gcgtaccgct gagtcaratt ttggcatcaa cttgaagggc 60
ccaaaaatca aaggaggtgc ggatgtttca gggggtgtca gtgccccara catcagcctt 120
ggtgaagggc atttragtgt taaaggttcc gggggtgagt ggaagggacc ccaagtcctc 180
tctgctctca acttgacac atctaagttt gctgggggcc ttcatttctc aggaccaaag 240
gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctcttgggct gagtgtgtct 300
gggcctcaag gtcacttgga aagtggatct ggaaaagtaa cattccctaa aatgaagatc 360
cccaaattta ccttctcttg ccgtgagctg gttggcagag aaatgggggt ggatgttcac 420
ttccctaaag cagaggccag catccaagct ggtgctggag acggcgagtg ggaagagtct 480
gaagtcaaac tgaaaaagtc caagatcaaa atgcccagat ttaatttttc caaacctaaa 540
gggaaaggtg gtgtcactgg ctaccagaa gcatcaattt ctgggtccaa aggtgacctg 600
aaaagttcaa aggccagcct gggctctctg gaaggagagg cagaggccga agcctcttca 660
ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaattcatt 720
cagtgatgaa agagagtctt ctggaccttc caccgccgac ggnacgctgg agtttgaagg 780
tggggaagtg tctctggaag gtgggaaagt taaagggaaa cacgggaagc tgaaattcgg 840
tacctttggt ggattggggg caaagagcaa aggtcattat gaggtgactg ggagcgatga 900
tgagacaggc aagttacagg ggagtggggg gtccctggcc tctaagaagt cccgactgtc 960
ctcctcttct agcaatgaca gtgggaataa ggttggcatc cagcttcccc aggtggagct 1020
```

```

gtcagtttcc acaaagaaag agtagcaggc ctttgtatgt gtgtacatat atatatatat 1080
aacaaaacat cagccttggg tgggtgtgtc ctatataaac tccaaaggga aacacaccga 1140
ctgcctcagc aatcatgcaa agaccttgcc tggcccgggtg gcaagcgctg aaaaaccgac 1200
cgctgtagg ctccctggaac tatacagata ggtaaagagt tccaagttcg tccagcccat 1260
gtgcaaagtc aacagtatct gccttaagat ttcatatata tatatttttt tgcattgact 1320
gctgagagct cctgtttact aagcaagctt ttgtgtttat tatcctcatt ttactgaac 1380
attgttagtt ttggggtaat ggaaaccac tttttcattg taatgacttt gggggccttt 1440
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agactggatc tgttcaaaca gcaaacgcc acagatggcc cagaggtggt ggtagtcagg 1560
gtgtgtgggt gtttttaggg ttcttttagt ttgtttctt caccagggg tgggtgtccc 1620
agccagtgtg gtgctgacgg tgagaggaaa ttagaatctg ttgcaaatt gtccaacca 1680
ccccctcaac atgaggggct tccattttct gtgttttgta agggaaactgt ttccttcag 1740
ccgccatgtt cctgatatta gttctgattt ctttttaaca aatgttatca tgattaagaa 1800
aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaataaaag ckgttattaa cctgaaaaaa aaaaaanan nn 1902

```

<210> 193

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 193

```

ttttgcttaa agctatttan gtgacactat agaaggtagc cctgcaggta ccgggtccgga 60
attcccgggt cgaccacgc gtccggggtt gcagacggag gtcagggtctt cctctttcct 120
gagactggat ctgttcaaac agcaaacgcc cacagatggc ccagaggtgg tggtagtcag 180
ggtgtgtggg tgtttttagg gttcttttagt gttgtttctt tcacccaggg gtggtggtcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaat tgtccaaccc 300
acccccctca catgaggggc ttccattttc tgtgttttgt aagggaaactg tttccttcac 360
gccgccatgt tcctgatatt agttctgatt tctttttaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaatcaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaataaaa gctgtttatt aaccttgaaa aaaaaaaaaa aaaggggngg ccgnccccat 540

```

tgccctaggg ggggttaant

560

<210> 194

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<400> 194

```
ctgcaggtag cgggtccggaa ttccgggtcg cccacgcgtc aggcggcggc gatgaccttc 60
tgccggctgc tgaaccgggtg tggcgaggcg gcgcggagcc tgcccctggg cgccagggtgt 120
ttcgggggtgc ggggtctcgcc gaccggggag aaggtcacgc acactggcca ggtttatgat 180
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagagggtgaa tgaaaacttt 240
gccattgatt ttagtagcaga gcagcccgtg agcgagggtg agactcgggt gatagcgtgc 300
gatggcgggcg ggggagctct tggccacca aaagtgtata taaacttgga caaagaaaca 360
aaaaccggca catgcgggta ctgtgggctc cagttcagac agcaccacca ctagagcgtg 420
tgccacgccc ggggtccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480
aagctcgtg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590
```

<210> 195

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

```
attggcatcn tctgaaagcg ttttagacag gcagaatctc tggctctccc tctctgcatt 60
ccccaccag tgaatgaatg agaatctgca tttcttgaga tcataagaat actgacatac 120
agatgagata aaactcatgt gaatatcagt ttttaaggctg gtggttcatt tgttttggtc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgat taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatattc tacagataat aacaacaact ggtatagtat 360
attttattta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttggttctgg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tcctactgna aaatacttgc atttcttgga 600
ctttaccttc ccactctntt cctttaaaca ggattcttna aaccggaaat tggttanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
```

<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

```
gnataatgct ggccattttg cctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttcccttcc cmcaataaga ccatttaagt gtgtytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaaggtgc ttgctcttac tstttcaaat 180
```



```

ttttgcaact ctartgtctc actttttaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggcttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagatctt aaagcatcaa atgcctgtga aacagcaaaag atggttgaaag 360
attgtgctca ttatgtttgt ggagtgctga ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaaagc agaaggcggc tgattgttg taagtcagtg 480
cagttgcata agcagtgtcg tcagaattgg tttggtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaagtaat tgaccaaag gaaaaggga agtaattaag gaaattggta 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc ttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagtg tctgtcagta agtgaaacat 840
tttttggtgg tggcttatcc acaaacagtt tagttgtaga ataaaactta tgagtgcacat 900
ctggaaagta accatgctaa gatggcaagc acactggaaa caattaggcc acttggcttt 960
cttttgctgt attgttttat aagcctactt tacctcccag tcttggaaac aagttttagt 1020
tttttattgg tttggagact agagccaata gtataatgtt ctcaaaggaa acagacttga 1080
gttggttgat tagaggaact aacccaactt atatgatttt tttttgttt ttgtcgtgta 1140
gttatggcac tgtcttattt ggaacatttg caactaggga taatacaaca tttttaactc 1200
tcatttgaca acctactact aatcacagac cacaagggtg atgaccaaat ttatgtggtt 1260
tttgcactcc atagtgtctt tagcccaatc tttctatact cttacgatta cttgggttaa 1320
cgcytctgtg aggaccttct ggctcttgag ataccctaaa tatttaagat atttagatat 1380
cttgaagata gtataggata tagagattgt accaaatagg aatataagga gtatgttaaa 1440
atgaccagat acctgtttga tagtttactg acctagcaga tgtgtggaaa aggaatcaga 1500
tcttgattct tctgggttta tactgggtgt aaaacagaat gatacagaaa atgttttcct 1560
tgtttaactg gtagttgaac atagaacttg ggtattatag atcacttttc actttttgga 1620
atgttttgta ttgaaactta ataaaacttt aacatggcaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaagana aaaaaaaaaa gggggggcnc cc 1772

```

<210> 197

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<400> 197

```

accacgcgt ccggacttcc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgctca agaaccagct ggaccaggaa 120
gtggagttct tgtccacgtc cattgctcag ctcaaagtgg tacagacca gtagtgga 180
gccaaaggact gtctgaacgt gctgaacaag agcaacgagg ggaaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaagagg 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420

```

```

gccatgaaac aggccgtcat ggaaatgatg agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttgggc gtggcttcct ggtgatggga agggctctgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccnngg 660
gggggcccgg nacc 675

```

```

<210> 198
<211> 557
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

```

```

<400> 198
tttaggtgac acgtatagaa ggtcgcctgc aggtaccggw ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gcccccgccg tcgtgaagaa gcaggaggcc aagaagggtg tcaacccgct gttcgagaag 180
cggcccaaga acttcggcat cggtcaggac atccagccca agcgggacct gacgcgcttc 240
gtcaagtggc cgcgctacat ccggctgcag cggcacgcgc gatcctctac aagcggctga 300
aggtgcccgc cgccatcaac cagttcacgc aggcgctgga ccgccagacg gccacgcagc 360
ttgcttgaag ctggcgcaaca attaccggcc cgagacgaag caggagaaga agcagcggtt 420
gttgccccgg gcggagaaga aarcggccgg ncaaggggga nttncggaac aagcggsgcc 480
cgttgtntnc gnaancgggg ttgaaaacgg ttcaacaagt tggttggaaga acaagaaggc 540

```

gccattgggtt cggttatt

557

<210> 199

<211> 2611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<400> 199

```
tcnccgggtcg acccacgcgt ccggcgagga gtaccttacc aacttggccc acatggacat 60
cgacaaggac tggaggcccc gctgtacctc acccccagg gctgggccct ctccctccag 120
cgctactacc aagtgttcca cgaaggggca gaactcaggc acctcgacac tcagggtccag 180
cgctgtgagg acatcctgca gcagctgcag gccgtggtag cccagataga catggaaggg 240
gatcgcaaca tctggatcgt gaagccagga gccaaagtcg gcggacgagg catcatgtgc 300
atggaccacc tggaggagat gctgaagctg gtgaacggca accccgtggt gatgaaggac 360
ggcaagtggg tgggtgcagaa gtatatgtag cggccccctc tcactcttgg caccaagttt 420
gacctcagac agtgggttctt ggtaactgac tggaaaccac ttaccgtgtg gttctaccgc 480
gacagctata tccgcttttc cacgcagccc ttctccctga agaacctgga caactcagt 540
cacctgtgca acaactccat ccagaagcac ctggagaact catgccatcg gcatccactg 600
cttccgctag acaacatgtg gtctagccag aggttccagg cccacctgca ggagatgggt 660
gccccaaatg cttgggtccac catcatcgtg cctggcatga aggatgctgt gatccacgca 720
cttcagacct ccagggacac cgtgcaatgt cggaaggcca gctttgagct ctatggcgct 780
gacttcgtgt tcggggagga cttccagccc tggctgattg agatcaacgc cagccccacg 840
atggcaccct ccacagcagt cactgcccgg ctctgtgctg gcgtgcaagc tgacaccctg 900
cgctgtgtca ttgaccggak gctggaccgc aactgtgaca caggagcctt tgagctcatc 960
tataagcagc ctgctgtgga ggtgcctcaa tatgtgggca tccggctcct ggtagagggc 1020
ttcaccatca agaagcccat ggcgatgtgt catcggcgga tgggggtccg ccagcagtc 1080
ctctgtctgac ccagcgaggc tctggggaag gcaaggactc ggggaccctt acccacaggt 1140
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ctgccaccac ttcagccccc ggaaagggga agaaagccga ggtatcagga agtttaagga 1260
agttgcccaa ggttgccacag ctcagaaggg gcacagctgg gatgcagacc cagcccgctc 1320
ccacttcccc agcctccaca ccaaggccca gctgccttct ccccatgtac tccgacacca 1380
```

```

gggccaggtc ctcagacgac agcacagcaa gctggtgggc actaaggccc tgctgaccac 1440
aggcaaggcc ttgaggactc tacccacggc taaggctctc atttccctcc caccgaacct 1500
tgatttcaag gtggcaccca gcatcctgaa gccaagaaag gtgggcctcg acctgtgact 1560
cacaccaggt ggacagtgtc gagcacgggg tcagggtgg agggcacagg cagaggggcag 1620
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attcctagca cctgtcggaa ggtcaaggcc aaaggcaaat tcaaggccag actgtgacaa 1860
acccagggtc gaggcctgcc ccatgaagag gctgagcccc ctgaaacccc tgccccttgt 1920
tggtacattc cagaggcgca ggggcctggg ggatatgaag ctagggaagc ccctgcttcg 1980
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aggggtccaca gcaagagcct gagggcatca gcagytctc cgtgcagmga ggcccagaat 2160
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aggggtgggg agcgtgacct tcactttaca gatgaagaaa ctgagtctga aagaggaggc 2280
atggcttacc caagatcacg tggcagttag tcgacgcagg gacatattgc cagaactgcc 2340
gagcactggg agccccccaa ccccagagaa caagccaagc tagcagaatg acacctaccg 2400
ggcataggaa cgттаатgcc atgagacaag ggaaggattk gcttgctaaa mctcagccct 2460
tytgacagaag gcatkgtgtc atcccttctt cagcaaaggg gcaagggtcac taaaaatgaa 2520
catccataag ccacaaccac tggagaaant tttgcactgn ttagtgtagt tggttgaatg 2580
tgggnccccg gaaagagatg ttacttgga c 2611

```

<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

```

ggcacgagga aacatggagt cctgtaggca aggtcttacc tgaatcagga tgagggagtg 60
gtgggtccag gtggggctgc tggccgtgcc cctgcttgct gcgtacctgc acatcccacc 120
ccctcagctc tcccctgccc ttcactcatg gaagtcttca ggcaagtttt tcaattacaa 180
gggactgcgt atcttctacc aagactctgt ggggtggtt ggaagtccag agatagtgtg 240
gcttttacac ggttttccaa catccagcta cgactggtac aagatttggg aaggtctgac 300
cttgagggtt catcgggtga ttgcccttga tttcttaggc tttggcttca gtgacaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgcca 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgttgc 480

```

```

tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggcttacca taaagagtct 540
ctgtctgtca aatggaggta tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggagggtgtgc tgtcaccat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcaccccag tctttgggcc gtatactcgg ccctctgaga gtgagctgtg 720
ggacatgtgg gcagggatcc gcaacaatga cgggaactta gtcattgaca gtctcttaca 780
gtacatcaat cagaggaaaga agttcagaag gcgctgggtg ggagctcttg cctctgtaac 840
tatccccatt cattttatct atgggccatt ggatcctgta aatccctatc cagagttttt 900
ggagctgtac aggaaaacgc tgccgcggtc cacagtgtcg attctggatg accacattag 960
ccactatcca cagctagagg atcccatggg cttcttgaat gcataatagg gcttcatcaa 1020
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gtgtattcca cttaggaaga aatgccc aaa agaggtcctg gccatcaaac ataattctct 1140
cacaaagtcc actttactca aattggtgaa cagtgtatag gaagaagcca gcaggagctc 1200
tgactaaggt tgacataata gtccacctcc cattactttg atatctgac aaatgtatag 1260
acttggtttt gttttttgtg ctattaggaa attctgatga gcattactat tcatgtatgc 1320
agaaagacgt tcttttgc ataaaagacttt ttttaacact ttggacttct ctgaaatatt 1380
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atacccttac tctgccagag tagtgaagct aattaaacac gtttggtttc tgaataaatt 1740
gaactaaatc caaactatct ctaaaatca caggacatta aggaccaata gcatctgtgc 1800
cagagatgta ctgttattag ctgggaagac caattctaac agcaaataac agtctgagac 1860
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tggtgtgtag tcaagtcacc atgctgaatg tacactgatt cctttatgat gactgcttaa 1980
ctccccactg cctgtcccag agaggctttc caatgtagct cagtaattcc tgttacttta 2040
cagacaggaa agttccagaa actttaagaa caaactctga aagacctatg agcaaattgt 2100
gctgaatact ttttttttaa agccacattt cattgtctta gtcaaagcag gattattaag 2160
tgattattta aaattcggtt ttttaaatta gcaacttcaa gtataaacaac tttgaaactg 2220
gaataagtgt ttattttcta ttaataaaaa tgaattgtga caaaaaaaaa aaaagggccn 2280
gncccgtttt aaaagggatc cnaagcttta ccgtac 2316

```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1145)
<223> n equals a,t,g, or c

<400> 201
cgcanccac nnggtggang ccgctctaga atatggatcc cccgggactg cagggagtc 60
aaggtacagt cgccgcgtgc ggagcttggt actgggtact tggcctcatg gcggtccgag 120
cttcggttca gaacaactgt gagatcggct gctttgccaa gctcaccaac acctactgtc 180
tggtagcgat cggaggctca gagaacttct acagtgtgtt cgagggcgag ctctccgata 240
ccatccccgt ggtgcacgcy tctatcgccg gctgcccgat catcgggcgc atgtgtgtgg 300
ggaacaggca cggctctctg gtacccaaca ataccaccga ccaggagctg caacacattc 360
gcaacagcct ccagacaca gtgcagatta ggcgggtgga ggagcggctc tcagccttgg 420
gcaatgtcac cacctgcaat gactacgtgg ccttggtcca ccagacttg gacagggaga 480
cagaagaaat tctggcagat gtgctcaagg tggaagtctt cagacagaca gtggccgacc 540
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cttcaattga agaccaggat gagctgtcct ctcttcttca agtccccctt gtggcgggga 660
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tctgtggcct ggacacaacc agcacagagc tgtcagtggg ggagagtgtc ttcaagctga 780
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ccacattccg cccaatctgt accggatgct ggcaggaggg tggcagagag ctactggga 960
ctgaggggct gggcacccaa cccttttcca cctgtgctta tcgcctggat ctatcattac 1020
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gtgtctctgt gccaccccat taaagtgcag ttccctccgg aaaaaaaaaa aaaaaaaggg 1140
cgcnac 1147

<210> 202
<211> 688
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)

<223> n equals a,t,g, or c

<400> 202

```
acgtaccggt ccggtaatcc ccgggtcgac ccacgcgtcc gctcggcggg cgctgttgag 60
ggagtcgggc cgcgactgtg gtcgttttta taccttcccg cgcggacgcc ggcgctgcca 120
acggaagggc gggtaggacg gagtttcgtc atgttggccca ggcccatttg agatctttga 180
agatatcctc aacgtgaggc tctgctgcca tgaagggtgaa gattaagtgc tggaaacggcg 240
tggccacttg gctctgggtg gccaacgatg agaactgtgg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgcccg gcgacgactg cccgctgggtg tggggccagt 360
gctcccactg ctccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggcccg acctggntct 480
cgctggaggg gcatcctgag actccttcct catgctggcg ccgatggctg ctggggacag 540
cgccccgtgag ctgcaacaag gtggaaacaa gggctggagc tgcgtttgtt ttgccatcac 600
tatgttgaca cttttatcca ataagtgaat actcattaaa ctactcaaat cttaaaaaaa 660
aaawaaaawaa atctcggggg gggncccc 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

```
aaatgtgaaa actaaggcct tgcaagccta tgggtcaccc aggggtagga tcaggcacct 60
taactctaga gcccattctc ctaaccactg agccatgatt gtcttacaat tttgaatact 120
gcaaaactgg aagaattgtc tggctattat ctaagctgtt cataagctgg aacaagtaga 180
tctgagggtg agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
actatagagg gggaaaaaatg gcckgggang tccataaatc taagccngtt tcatggatgt 300
tttt 304
```

<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

```
gggtcgaccc acgcgtccgc gcgggcgggg acggagctcg gcgtgcttgc tgctggaggg 60
```

156

```

tgatggccct gcaaggctgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120
cgaagagcga ggttctgggc gagcgctgaa cgccggcccc aagcaccocg ggtctttaca 180
cagtcgcgct ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaaag ttgcccaggc 300
gtggactcaa tgacytttcc aastgtgcgc ctccgtgcct ggaccgggtt gagcgcggtt 360
gcccaagttg aactttttgn ggggaggggt ttctctaagg gctgttgtct caatggg 417

```

<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

```

gggtcgaccc acgcgtccga ctagttctag atcgcgagcg gcccgcctt tttttttttt 60
tttttttttt tggtttccag agtttggtt tattttgcag tacagaaatc atctggagcc 120
gtctgagaca gacatccctg aagcggaggc tctgtcaaat caatactgcg tcgcacttrg 180
tccgttgagg aagccacacc tggggtacaa aagaagcttc tacgtttacc cgctgtacca 240
cggatttctt tcccctttgc tcttaccaat tttaccagggt gaaaacaccg cacagaggct 300
tccctcggaa tgacgctcgg gtctggagtt gggttagaat tgtgggcccg cgtgaccccc 360
acctgtggct gtgttccgtg gccctgtcct aaacagctga cgggacacag acgtagaggg 420
gcggggccac gcagggatgc tgttcccaan tcacgganta tctggtgggc ntcgcaatgg 480
ccantgggac agatggcacg tgaaaggggc cgttccggnt ctcaagcggc agaagcacia 540
gaccgcggag g 551

```

<210> 206

<211> 1101

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<400> 206
tcccgggtcg acccacgcgt nccgcccgt ggaggctgga gcttccgggc cctggaaagg 60
gggtcccccgc cgccccgggt cggaggcaga cccctgggtt tgggggacat gggcatttgg 120
ggcgccctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgagggtg 180
accttgctgc tgcagtgcct tggcgggggc ctgccccagg agcagataca ggccgagctg 240
agccccgccc atgaccgtcg cccactgcc aagtggggac aggccatcac tgccatctgg 300
gagaccgggc taaaggccca accctggctc ttcgacgccc ccaagttccg cctgcactca 360
ggcaccctgg cgccatttgg ctctcggggg ccacagctgc tcctgcgcct gggccttact 420
tcctaccgag acttcctggg caccaactgg tccagctcag ctgcctggct gcgacasang 480
gggtgccaccg actgggggtga cacgcaggcc tatctggcgg acccactggg ggtgggctgct 540
gactagcca cagccgatga cttccttgyt ttcctgcgcc gctccccgca ggtggctgag 600
gcccctgggc tgggtggact acctgggtgg caccctgagc ctccaggccct gtgccctggt 660
ggcagccccc agcaccagga cctcgctggg cagctggtgg tacatgaact cttttccagt 720
gtccttcagg agatctgtga tgaggatgaac ctgccgtgc tcaccctgag ccagcccctg 780
ctgttkggca tcgcccgaat tgagaccagt gctggccgag ccagtgccga gttctatgtc 840
cagtgcagcc tgacttctga gcagggtgag aagcactacc tgagtggggg acccgaggcc 900
cacgagtcta caggaatctt ctttgtggag acacagaacg tgcggagatt gcccagagacg 960
gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020
agggaaagtcc cactggagcg gccctagggt cccagccct actcccgccg ctctgaaaat 1080
aataaacgac tttattcttg g 1101

<210> 207
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 207

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gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acactgcgag aatacaaggt ggtggggcgc tgcctgccca ccccaaatg tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgcacct aatcacgtgg tcgccaagtc ccgcttttgg 180
tactttgtgt ctcagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcactctggct gcgctatgac 300
tcgagaagcg gtaccacaaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtggttaccg agacatgggc gcccgcacacc gttgcccag cgcatctgat 420
tccagatnct tgaaagtggna ggagattgnc agccancaat tgccgccggg ccancattca 480
agcatttcca aggattccaa gatcaattcc cattg 515

```

<210> 208

<211> 269

<212> DNA

<213> Homo sapiens

<400> 208

```

aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac ctctctgggc catgcctggg tactgagraa cccagccctg 120
aatctggaca tcattttccc ttctcagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaaggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269

```

<210> 209

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<400> 209

```

cgactggttg ttaccgagga agatggcggc gccagaccgc aggcgctagg gaagatcgca 60
ccgcggacgc ccgctgagct tggcgacacg gccgaccagg agctggtgac tgccctcatg 120
tgtgatttgc ggcgccagc ggaggtggg atgatggact tggcctacgt ctgtgagtgg 180
gagaaatggt ccaagagcac ccactgccca tcggtgcccc tggcctgcgc ctggtcctgc 240
cgaaatctca tcgccttcac catggacctg cgcacgantg accaggacct gaccgcgatg 300
atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420
gacgggcaga tcaagtgtg gagcatggcg gaccacctgg ctaatagctg ggagagctca 480
gtgggcagcc tagtggaggg ggacccatt gtggccctgt cctggctgca caatggtgtg 540
aaactggccc tgcacgtgga gaagtcgggc gcctccagct tcggggagaa gttctcccga 600
gtcaagtctt caccygttct cacgctgttc ggcggaagc catggagggc tggatcgcg 660
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720
caccgagagc tntt 734

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<210> 210

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 210

160

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cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttcg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcgggtgccg atggcgcaaa ctogatggtg cggcgacatc tctaccgga tcatcaaatc 180
cgtaaatatg tcgctatcca gcagtgggtc gcggagaaac atccggtgcc gttctactcc 240
tgcattctttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaaatg agcgcccttc agttccagtt tggtaagacg gtgaaaagcg aaaaatgcac 420
gggtgctgtt tccctcgcg cggcaggatt ttgtctgcgg taaggacaac gcctttcttg 480
attggtgaac ggcgggattt atcagcgcca gctcgctgga agggattagc tatgcgctgg 540
atagcacaga catttctgcg ntcgtgntac tgaacancn gagaagctca ataccgttac 600
tggcgcgcca ccgaaactg ggtaaactc ttcgnaaga tataaaaagc catnctga 658

```

<210> 211

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 211

```

attcgagag ccattcttga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctgtt nttncacatg aagaaagtct caagttgtcg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctgtt ggag 204

```

<210> 212

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 212

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ttccgcagcc ttgccccagc ccaactcccc tctcacccta ccacagagca tggtaaatac 60
caagcccagag aagacggagg aggactcaga ggaggtgagg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttggcatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgcgag gagacagcca attacctggt 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcattggagc aggtggccca 300
ccagacaatc gtcatgcaat ttatcctgga gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tcaactaagat taagacagcc gatcgccagt acatggaggg 420

```

161

```

cttcaacgac gagctggaag ccttcaagga gcgtgtgcgg ggccgtgcc a gctgcgc at 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggctcg gccccggcgg 540
cctggacccc gtcgaggtct acgagtcct ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgcat cagcaagatg gacccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggc 720
caaggaggga gaggaggcag gtccctgggga cccattactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc ccagctacc accgccacct gcttccaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgctcc tgacttcctc 900
tacttgcgct gctcgcccca gcctggggg cccgccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
agcccccat cagcattatg ccaaaggccc ggggggtccg ggaagggcag aggtcaccag 1080
gctgggtctac caggtagtgt gggagggtcc ccagccaagg ggccggctct cgtcactggg 1140
ctctgttttc actgttcgtc tgctgtctgt gtcttctatt tggcaaacag caatgatctt 1200
ccaataaaag atttcagatg cnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa 1260
aaaaaaaaa g 1271

```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

```

cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaacggcg gccgggaggg ggctccgggg accatggggc tcctgaccat tctgaagaag 120
atgaagcaga aagagcggga gctgcgactg ctcatgcttg gcctggacaa tgctggaaaag 180
acaaccatcc tgaagaagtt caatggggag gacatcgaca ccactctccc aacgctgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcatg caggactgcc agcgggagct ccagagcctg 420
ctgggtggag agcgcctggc cggagcaacc ctctcatct ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggyccctg agctggactc catccgcagc 540
caccactggt gcatccaggg ctgcagcgcc gtcaccgggg agaacctgct gccgggcac 600
gactggctcc tggatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccca tgggggggtg 720
ggagtcagcc ggccaaacta aactccccc tcctccaccc cagcctgctg ctgctactgc 780
tgcccgcgtc tgctctgtgg ccaccgggct cccatggcgg gagggctgtg ccctggctgt 840

```

162

```

ctctctggct cctgacctgg cctttggcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggcctcatcc ttcactcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga                                           1025

```

<210> 214

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 214

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ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gtaaatatta cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaa tggatattgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagttaa attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaac ttagratcca tggtggaagg tgkargagga 300
agcatgcacc atcttctactg gccagagcag gnggagagag agcaaatttg g      351

```

<210> 215

<211> 1087

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1075)

<223> n equals a,t,g, or c

<400> 215

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gctggagtc cagtccaccc gccacgccc agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggccctt ggggccagca 120
gtcgggagga gccacctgag gagcctgagc agtgcccggc cattgacagc caagccccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttgga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtctc aggacatcga gacggcctgc aagctgtctc 300
acatcacccg agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctctgttgga 360
cagagcacca ataccggctg ccccccatgg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgctg catgtcggag gagcagttcc gccagcgtc gcccttgggt ggggatgtgc 480
tgcacgcccc cctggacatc tggaaagtcag cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gagggtggact 600
catcatgctc cgggcagccc atccacctgt ggcagttcct caaggagttg ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccaggtggcc cggctgtrgg gcatccgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa gggcatcatc cggaagccag 840
acatctycca gcgscctctc taccagttcg tgcaccccat ctgagtgcct ggcccagggc 900
ctgaaacccg ccctcagggg cctctctcct gcctgccctg cctcagccag gccctgagat 960
gggggaaaaac ggcagtctgc tctgctgctc tgaccttcag agcccaaggt caaggagggg 1020

```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080
ggctttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgectgcngg naccgggtccg gaattcccgg gtcgaccac gcgtccggca gaagaagagg 60
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gaggctcagc 120
agcgagggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactg 180
gggagccagc tcccggtgctg tctcccccac ctcctgcaga cgtctccacc ttcttggett 240
ttccctctcc agagaagctg ctgcgcctag ggcccagag ctccgtgctg atagcccagc 300
agactgacac gtctgacccc gagaaggtgg tctctgcctt cctaaaggtg tcatctgtgt 360
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctcgtgcaca 480
tgggtctgct caagagtga gacaaggtca aggccattgc caacctgtac ggccccctga 540
tggcgctgaa ccacatggtg cagcaggact atttcccaa ggccttgca cccctgctgc 600
tggcgctcgt gaccaagccc aacagcgccc tggaatcctg ctcttcgccc cgccacagtc 660
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccatcccttg gctggacca 720
gtgagctggg gagggactcg gatgaactga ggcgagcct acgccattgc ctgggacag 780
actctggcca caggcagggc gggctctgtgt cccatgtgtc ctgtcagtc cctgagtatg 840
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taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260
gtcggatcgt ggggttgttg gcagagggca accctgggcc ccacaccgtg tggacaggca 1320
gacaccagat tgtccaggag caggagctgc tgggactgcg ctggccccgg acctagtggg 1380
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aaccctaaagc tgttctccag tctggggagg gagaggcagg gtccccaatg tccgagctgc 1500
atctggacgc tgctcttaaa ggacctcctg gggcagggga gcggtagggt ctggactggg 1560
cagatgctgt atgacctccc tgagcaccgg tgactgcccc atgctttccc ctttgtgtc 1620

```

tgtgtgtgtc tggctgtgcc cgggggcttc acaaataaag tcgtgtggca gcttcagaga 1680
ctcagaaaact ctcactgaaa gcgggatagt ctcggggggcc gttgtacgtg gagtcccacc 1740
tcggcagagc atgcggcccc gcagcagtct gtggggcagt cagccctgca gaaggggccc 1800
gcctcggcct caggcactac ctgggaagtg gcagtcctga gtggggggccc attttcctgc 1860
ctggscacac ctnaccacagc accctgcctt tgggctgcag ctcgcttggc ttctgcgttg 1920
ctccttcact atggaagcca cctcccttgg gatcctttgc tccactgcc aatattgt 1977

```

<210> 217

<211> 2815

<212> DNA

<213> Homo sapiens

<400> 217

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aattcccggg tcgaccacag cgtccggggc cccgcgtctg agcccagagg gctgtggagt 60
gtcccggccg gccccgagca ccccgcgct gtccgtcccc cgctccggtc ttcgctttg 120
gcttccaact agttaaatgc ccttgagcgc gggtttccgc ggcccggctc ttcgcccccg 180
cggcgcgagt tgagccgctt cccgcgctg tccgcgcggg cgctccgaca gcggctctgc 240
agggtccgcg gccagcgtcc ggccaccgct cggccggccac tcaaggctca cgcgtcgatg 300
tgtagctaca tagttatctg tgtacatcca cgctggggca tttttctcct gcttaatgag 360
gacttgactc gggagcaagt gtgaatcatt gccggggctg ggaaaaggagg aaggcgcatt 420
taacccctct ccacccctct ccatgtccgt gtgtcactcg gctcgggtcca cctggcgcg 480
ccggctcctg ggctgtgct gctgttgacg acgacgacga cgacgggggc tgctctgct 540
gtcccgggag tttctcctcg ctccggccac acagctcctg gggattgttc ctcttcgaac 600
cagaacctcg gcctgaccgg cactttggct ccaaaataac tttatttttg ggggagaaag 660
cacatcacga accagtcaaa atcgtggttt atttctgtaa cgtgaagact tctgctcttt 720
tttctttggt tgtttttttc gtaaacatct ggggtgtatat caaacggcaa gatgtccagt 780
aatgtcccgg cggatatgat aaatttgccg ctcattttgg taagcggaaa aacaaaagag 840
ttcctgtttt ctcttaacga ttctgcttct gacattgcaa agcatgtata tgacaattgg 900
ccaatggact gggaagaaga gcaggtcagc agtccaaata ttctacgact tatttatcaa 960
ggacgatttc tacatggaaa tgcacatta ggagcattaa aacttccttt tggcaaaaaca 1020
acagtgatgc atttgtggc cagagagaca ttaccagagc caaactctca aggtcagagg 1080
aatcgtgaga agactggaga gagtaattgt tgtgtaatcc tgtaaacact gtctgcctag 1140
tgtgatgtga tatagtcttt gtctttcatg ctgctgggac agaaaagacc cgacattgct 1200
tcagaaaccg ttcagaacag tctgcctgta aacacatgga actgaattac cacatgaaca 1260
ctgtcatctt ttctcatgaa agtaaaaaga accaagaaca tttttcactc tgatttttta 1320
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aggaaaaaat ggaaaagaaa ctaaaatgtt ggggtgaattc taccaaagtc agccgtggtg 1680
gctgcactgg cacagaatac taaactgagt gtgactatct tcaactgcaac aaatgaaaaa 1740
acaaaatgtg cctgtttaaa gactcagta gagggctgat gaaactaatt tttttcctt 1800
taagacatgc actcttgagt cctacagtaa ctgagtgttt gtttagacag cacaagaagg 1860
ggtagagatg cgtctcctag ccttaatgtg ggagggtagt ttcagtcact catcggttt 1920
cattattgtg crgaatatatt agaaaacctc attgatcaat tttatgtatt tgaatatcag 1980
caaattgaaa ttttccataa ttatcattaa tttgtaacca catccagtgt catgcttact 2040
ccttagagtt cagatgaatt cttaaaatta aaaaaaact ccatagtact aattttgktt 2100
ctttatatag tttcggtttg atattagtgc ttgcaattgt attaaagtca aaagctgatt 2160
tttatggcat acacaagaat gccacttttt cttttatttc ataccaataa tttaaagatt 2220
gatatgctaa aaacaatttg cacagcacta aagcatgagc tactttcatc taaacctgta 2280

```


165

```
aaaatatgaa agatttttat attttttcac tgggaagaaa ttcttcctgg atgaaattac 2340
aaatatgtgt agaatatatt taataaaaaga cttataaaat acctaactac aggacttaaa 2400
atatagattg gcgcgtagta tatagaacaa tattccatat aaataagttt agcctttata 2460
aaaatgaaat tgcaggctga cattacattc tgtacttact aagtgtcaac agcccttaca 2520
aacattaaat gtaaatgggt tcaaatggtc agcgttggtt aaatgtaatc atgttatttt 2580
attcattgtt aatgctttga tgaaaaggct ttatatgcag tagatctacg aaaatattgt 2640
tcatactgat cagaattaaa ttgtataga gcagagtttt aaaatgaatg taaatagcac 2700
taaacgtttt cttctgcaa cctgtactta cagattcttc ctgtaacta aataaaaaaa 2760
aaatgatagt gcaaaaaaaa aaaaaaaggg cggccgctcg cgatctagaa ctagt 2815
```

<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

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gcccacgcgt ccggagggcg gggacaactg ggtcttttgc ggctgcagcg ggcttgtagg 60
tgtccggctt tgctggccca gcaagcctga taagcatgaa gctcttatct ttgggtggctg 120
tggtcgggtg tttgctgggtg cccccagctg aagccaacaa gagttctgaa gatatccggt 180
gcaaatgcat ctgtccacct tatagaaaca tcagtgggca catttacaac cagaatgtat 240
cccagaagga ctgcaactgc ctgcacgtgg tggagcccat gccagtgcct ggccatgacg 300
tggaggccta ctgcctgctg tgcgagtgca ggtacagga gcgcagnacc accaccatca 360
aggtcatcat tgtcatctac ctgtccgtgg tgggtgccct gttgctctac atggccttcc 420
tgatgctggt ggaccctctg atccgaaagc cggatgcata yactgagcaa ctgcacaatg 480
aggaggagaa tgaggatgct cgctctatgg cagcagctgc tgcacccctc gggggacccc 540
gagcaaacac agtcctggag cgtgtggaag gtgcccagca gcggtggaag ctgcagggtg 600
aggagcagcg gaagacagtc ttcgatcggc acaagatgct cagctagatg ggctgggtgtg 660
gttgggtcaa ggccccaaca ccatggctgc cagcttccag gctggacaaa gcagggggct 720
acttctccct tccctcggtt ccagtcttcc ctttaaaagc ctgtggcatt tttcctcctt 780
ctccctaact ttagaaatgt tgtacttggc tattttgatt aggggaagagg gatgtggtct 840
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gggaatggag acattcgagg cgccctcagg agtgatgag atctgtctct cctggctcca 960
ctcttgccgc cttccagctc tgagtcttgg gaatgttgtt acccttgga gataaagctg 1020
ggtcttcagg aactcagtg ctgggaggaa agcatggccc agcattcagc atgtgttcc 1080
ttctgcagtg gttctttatc accacctccc tcccagcccc agcgcctcag ccccagcccc 1140
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tcagggtgca ctggaagctg gtgttcgctg tcccctgtgc acttctcgca ctggggcatg 1260
gagtgcccat gcataactctg ctgccggtcc cctcacctgc acttgagggg tctgggcagt 1320
ccctcctctc cccagtgtcc acagtactg agccagacgg tcggttgga catgagactc 1380
gaggctgagc gtggatctga acaccacagc ccctgtactt gggttgcctc ttgtccctga 1440
acttcgttgt accagtgcac ggagagaaaa ttttgcctc ttgtcttaga gttgtgtgta 1500
```

```

aatcaaggaa gccatcatta aattgtttta tttctctcaa aaaaaaaaaa aaaaaaccaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aangg                                     1645

```

<210> 219

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 219

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tcgacccacg cgtccgggga attcaaggag acgggggcga cgcggtctgt ggcgcctcct 60
cgggttttggg gctgccgcca tcatgccggg gatagtggag ctgcctactc tggaggatct 120
gaaagtgcag gaggtgaaag tcagttcttc ggtgctcaaa gctgccgccc atcactatgg 180
agttcagtgat gacaagccca acaaggagtt catgctctgc cgctgggaag aaaaagaccc 240
ccggcggtgt ttagaggaag gcaagctcgt caacaaktgt gctctggayt tcttcaggca 300
gataaagctt tcaactgtgca gagcctttta cagactattg gacntgcac gactactccg 360
gcctgcagtg ttttcgtcgc tgccgcaaac agcaggccaa tttgacgatg tgtgnggggc 420
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<210> 220

<211> 832

<212> DNA

<213> Homo sapiens

<400> 220

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cagcccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180
tttttcttta cttctaaaaa agttacagtt tactaataaa gttaagtctg gttctgtcct 240
agaggaaata aattcactat taattcatgt cttaagttac ttgggttaaa acactttcag 300
ccaccagat taattaaagt ggagcagtg agccctggc tgggagatgg cctccagagg 360

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agcagctgca gggcaygttc tgggcttagc gacagaggca agcaaggac tgggtgtctct 420
ggtgagaggt gggtttgatg tatctctgtc ctatgctggt ctctcttctc ctttataaaa 480
tcctctgtgg tcaactgact actgctgtat gcagtggagt aagactgcac agttgctggt 540
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tgcataattt aagcatgtgt tcacactgtg tgtaaacatt cactgaagat ttttctttg 720
tgcattgctg actgttcaaa cataacaagt attattaaaa ttaaatatta actgacaaaa 780
aaaaaaaaa aaactcgag ggggggcccg gtaccaatt cggccggagt ag 832
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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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cctgctcatt tgaaaatctg acatcagctg ggcagtcgcc cccctcctcc ttctctccct 180
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tccatatcca ggaaaatgtg atgcgccaca ggtatcagcg tctggwtcgc cacttcacgt 300
tttagccaca agtgactcag tggaagatcc agagtcaaca gaggtcgtc aggaagatgt 360
ctacagaaaa ggtagaccaa aaggaggaaag ctggggaaaa agaggtgtgc ggagaccaga 420
tcaaaggacc ggacaaagag gaggaaccac cagctgctgc atcccatggc caggggtggc 480
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aagtcttggc aggccgtgcc cgcagctgct gctgcagttt ggggtgctct tctgcacat 660
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gacagtcagc cacctcagcc ctgtgcattt ctactacagg accgactgtg attcctccac 780
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1892

<210> 222

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (860)

<223> n equals a,t,g, or c

<400> 222

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ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca 180
gggacatgct gctggccaat aaggtgccag ctgccgcccg tgctgggtgcc atagcccat 240
gtgaggtcac tgtgccagcc cagaacactg gtctggggcc cgagaagacc tccttcttcc 300
aggctttagg catcaccact aaaatctcca gaggaaccat tgaaatcctg agtgatgtgc 360
agctgattaa gaccggagac aaagtgggag ccagtgaagc cacactgctg aacatgctga 420
acatctcccc cttctccttt gggctgatca tccagcaggt gtttgacaat ggcagcatct 480
acaaccctga agtgcttgac atcacagagg aaactctgca ttctcgcttc ctggaggggtg 540
tccgcaatgt tgccagcgta tgtctgcaga taggttaccc aactgtggca tcagtgtccc 600
attctatcat caatggatac aagcgggtcc tggtttgtc tgtggagact gattacacct 660
ttccacttgc tgaaaaggtc aaggccttct tggtgatcc atctgcattt gtggtgtgctg 720
cccctgtggc cgctgccacc actgctgcac ctgctgtctg tgcagcccca gccaaagtgt 780

aagcaaagga agagtcggag gaawcggatg agagkattkt camttcgana atcagcaaaa 840
gcaacaattc cagccagtnn attgtgaa 868

<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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cgatggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180
cattctggac aactgcccaa aatttcccaa tcgtgaccaa cgggacaagg atggtgatgg 240
tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300
taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360
ggacagcaca gacaactgcc ccaccgtcat taacagtgcc cagctggaca ccgataagga 420
tggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480
ccctggacca gacaactgcc ggctgggtccc caaccagacc caggaggata gcaacagcga 540
cggagtggga gacatctgtg agtctgactt tgaccaggac cagggtcatcg atcggatcga 600
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cctggatcct gaaggggatg cccagatcga tcccaactgg gtggctcctga accagggcat 720
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tggaattgac ttcgaaggga ccttccatgt gaatacccag acagatgatg actatgcagg 840
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gcagacatat tggcaagcca cccattccg agcagttgca gaacctggca ttcagctcaa 960
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gggcccgnnc caattn 1516

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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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ccggactccg tcggcgcaca tccccgtccc agcgcagaga gccaccccag gaaaagcccg 120
gctggacgag gtcattggctg ccgctgcnst tacaagcctg tccaccagcc ctctccttct 180
gggggccccg gttgcagcct tcagcccaga gcctggcctg gagccctgga aggaggccct 240
ggtgcggccc ccaggcagct acagcagcag cagcaacagt ggagactggg gatgggacct 300
ggccagtgcg cagtcctctc cgtccacccc gtcaccccca ctgccccccg aggcagccca 360
ctttctggtt ggggagccca ccctgagaaa aaggaagagc ccggcccagg tcatgttcca 420
gtgtctgtgg aagagctgcg ggaaggtgct gagcacggcg tcggcgtatg agagacacat 480
ccgctggtg cacttgggga ggcaggcaga gcctgatcag agtgatggtg aggaggactt 540
ctactacaca gagctggatg ttggtgtgga cacgctgacc gacgggctgt ccagcctgac 600

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tccagtgtcc cccacggcct ccatgccgcc tgccttcccc cgcctggagc tgccagagct 660
gctggagccc ccagccctgc ctagtcccct gcggccgcct gccccgccc tgcccccgcc 720
ccctgtcctg agcaccgttg ctaacccccca gtcctgtcac agtgaccgtg tctaccaggg 780
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tttttgact aaaagcaaaa acaaacgggt gttcccttta gncccaagg ggccttgggg 1260
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<210> 225

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 225

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tcgacccacg cgtccggcgt cctctcggag cccgtgcggt cacttagcca agatgcctga 60
ggaaaccacg acccaagacc aaccgatgga ggaggaggag gttgagacgt tcgcctttca 120
ggcagaaaty gcscagttga tgtcrgtgat catcaayacy ttctactcga acaargagat 180
cttcttgcg gactgatctc caactcgtcc gacgctcygg acaaaatccg atacgagagc 240
ctgaccgacc ccagcaagct cgactcgggg aaggagctgc acattaacct catcccgaac 300
aagcaggacc ggaccctcac catcgtggga taccgggatc gcatgaccaa ggccgacctg 360
atcaacaacc tgggcacccat cgccaaktcg gggaccaaaag cgttcattga agytctgcag 420
gcgggcgagc atatttcyat gattggccag ttcggggctcg ggttctattc ggcctacttg 480
gtggcnagaa ggtgacggtg atcaccaagc acaacgatga cgagcattac gcctgggagt 540
cntccgcagg ggctcgttca angttccgca ttgacacagt gaac 584

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<210> 226

<211> 523

<212> DNA

<213> Homo sapiens

<220>

172

<221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (498)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (514)
 <223> n equals a,t,g, or c

<400> 226
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 atggtgacag acatccagac tgctgtaagg accaactcca cctttgttga agctttggtg 120
 gaccatgcc aagcacagtg tgatctcctg gggcccggca tggctgacat gtgcaagaac 180
 tatatcaacc agtattcgga cattgccgtc cagatgatga tgcacatgca acccaaagag 240
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 aaggacacgg tccaggcaaa gaccagtgtt agctgtggag atatgagagt tacgtggttg 420
 aaggaaagtg ccaagctcca ttggacaaca acaggactga ggaagaaata gtttcaggct 480
 tggataaatg tgctccantt gccctaagtc ctanctgaac atg 523

<210> 227
 <211> 2377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2369)
 <223> n equals a,t,g, or c

<400> 227
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 agtctcggtc ccgcactcgt tctcgatctc ggtcgacctc caagtccaga tccgcacgaa 120
 ggtccaagtc caagtcctcg tcggtctcca gatctcggtc gcggtccagg tcccgggtctc 180
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 cgtgttaatg taagaatgac tcctatcatt aggagtgtg ctccgagggt actcaccttt 420
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 ggctgtttcg taaactgttt gagacctatt aatgaaaatg actatttctt gctgttttta 540
 tccaacgtct gcattttccc cctttaaagc tgcggtctcc tgtttgataa aagaatattg 600
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 tgcaataaga agcagtgaac atttggaacc ccaaaagaaa gttacaggta ttgcactggg 840
 tggggaaagg atagtgtgtc ttttaactctt aaattgtttg gtcctatttt ttaaaaagga 900


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aagggcccta agtagctcag atattaaagt agtattctca attaccaaat gtttcatttg 960
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tgtaagtact tataacatgg tgatctttt tgcttatgaa tattctgtat tataaccatt 2280
gtttctgtag tttaattaaa acattttctt ggtgttagct tttctcagaa aaaaaaaaaa 2340
aaaaaaaaa aaaaaaaaaa aaaaaaang aaaaaag 2377

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<210> 228

<211> 463

<212> DNA

<213> Homo sapiens

<400> 228

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acaatatgac tcctccttta cttcatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgtaagatt gcagattttg gtttatcaaa gtggcgcatg atgtccctct 240
cacagtcacg aagtagcaaa tctgcaccag aaggaggagc aattatctat atgccacctg 300
aaaactatga acctggacaa aaatcaaggg ccagtatcaa gcacgatata tatagctatg 360
cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgtc accaatcctt 420
tgacataat gtatagtgtg tcacaaggac attggactgg tat 463

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<210> 229

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 229

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gacctctctc cttccagct gccagagcc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgccgtgc ccgcggggcc tcgggcatcc agggcctggc 180
caggttttcc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240

```

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gcaggggtctg gccaaactcg ggctggtgct ggaccaggcg gaggcagagg gtgtgtgcag 300
gaagtgggac cgcaatggca gcgggacgct ggatctggag gatttccttc gggcgctgcg 360
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cggcgtgagt gcctccatga acacggatga ggagttcgtg gccatgatga ccagtgcctg 660
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gacctgcca ggtgtggagc gaggggcaca ggggcatcct aacctcagaa actgaaataa 1140
agcctttgaa aaaaaaatct gtaaacatc aacccccaat cagaagatgg caaatgggga 1200
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<210> 230

<211> 1063

<212> DNA

<213> Homo sapiens

<400> 230

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<210> 231

<211> 1063

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<400> 232

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<210> 233

<211> 1782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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```

<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2202)

<223> n equals a,t,g, or c

<400> 234

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<210> 235

<211> 2580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2558)

<223> n equals a,t,g, or c

<400> 235

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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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tgagctattc ctctttggtt tggctttttg atatgattaa aattattttt tattcctttw 2940
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3000
nggggggn                                     3008

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<210> 237

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 237

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ttataatatg atgtaagtac agagagctgt gggaacataa aggaaggaaa atgaacttga 180
gtctgagact gtcacttct attagagccc tcttctgttt tgcttcatgt tcagccttca 240
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attatgttct taatttttat ctgtgaatta agccaccag ctctcagct ctttctctgt 420
tggccctcta cttcagatta ctttctatga agacaaaaat tttcaaggcc gtcgctatga 480

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ctgtgattgc gactgtgcag atytccacac atacctaagt cgctgcaact ccattaaagt 540
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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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tgggtcatcag ccaggggaag attgtccttg aggacggcac cctgcatgtn accgaanget 180
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aagtgtctgt gacgccaag acagtactc cagcctctc ggccaagacg tctcctgcca 360
agcagcaggc cccacctgtc cggaacctgc accagtctgg attcagtttg tctggtgctc 420
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<210> 239

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1989)
<223> n equals a,t,g, or c

<400> 239
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gggggtgggc atgtgccagg acaggagggt ccggcggaag agccagcccc ggactcatcg 1860
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aaaaaaaaanc cc 1992

<210> 240

<211> 497
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (387)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (476)
 <223> n equals a,t,g, or c

<400> 240
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 gctttctccg cggttgacac ggatggaaac ggcaccatca atgcccagga gctgggcgcg 240
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 gttgacrgcg acggcgacgg cgaatcagc ttccaggagt tcctgacggc ggcrargaag 360
 gccagggccg gcctggagga cctgcangtc gccttccgcg ccttcgacca ggatggcgac 420
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 attgaccatt ttggagc 497

<210> 241
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (133)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (311)
 <223> n equals a,t,g, or c

<400> 241
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 tgttcaacga tgnaatctgt ggataatacg cacatttcgc cggaagtggg atccgggttag 180
 ccaraaagca ggcaggacgt gatggatatt gtatttatag agcaactttc ggtaatcacc 240
 actattggtg tttacgactg ggrccaacya tcgaacagaa gttagtgttc gatatcgaaa 300
 tggcgtgggg ntaacc 316

<210> 242
 <211> 829
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

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gcaggtaccg gtccggaatt cccgggtcga cccacgcgtc cggaagaaa agaagaaaag 120
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ctattatgat cttatctcag gagcatctca gtgggagaaa cctgaaggat ttcaaggaga 240
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atgaaatagt gatatctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480

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aggctgaggc atgtggatca caaggtcagg agttaagac cagcctggcc aagatggtga 540
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aacagtgagc cgagattgca ccaccgact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaa aaaaaaaaaa agggcgcccg ctctagagga tccctcgagg ggcccaagct 780
tacgcgtgca tknaacgtca taggggctng ggcntttacc tttcccgtc 829

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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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cacgtgtaca taatcagagc cacaataaat tctatttcac accccttgtg ccgggtcag 2520
tctagccctt gggaggcggc tggggtctg cgccgcccctc gcagcccgcc cccacgtcag 2580

```



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acgtgaacat caatttgctt cgaaagccaa gggtaaagag gcacgatygt atttatcagt 2640
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcgcccttg aaggccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
gcggaaatcc ctcaagtgat caccgaggtc tgg 2853

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<210> 245

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<400> 245

```

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tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgccgtcact 180
cacaccttct gcggcaccat tgagtacatg gcccctgnag attctggtgc gcagtggcca 240
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gcccgccttt accgcagaga accggaagaa aaccatggat aagatcatca ggggcaagct 360
ggcactgccc ccctacctca cccagatgc cggggacctt gtcaaaaagt ttctgaaacg 420
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gccctgtctg cagtcagagg aggacgtgag ccagtttgat acccgcttca cagggcagac 600
gccggtggac agtcctgatg acacagccct cagcgagagt gccaaaccagg ccttccctggg 660
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tgtgtctgct ggggcagctg tgcccctgaa tcatgggcac ggaggccgcc cgccrmgcc 1140
cgcgctcaac tgctcccgtg gaagattaaa gggctgaatc atgaaaaaaaa aaaaaaa 1197

```

<210> 246

<211> 848

<212> DNA

<213> Homo sapiens

<400> 246

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ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc gggtagcagg gcggcgccgc ggggagctgc gcaagatcca ggcgcggatg 120

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```

ggcgtgttcg cgcaggctga cggctcggcc tacattgagc agggcaacac caaggcactg 180
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gccctagtga actgtcaata tagttcagcg accttcagca caggtgagcg caagcracgg 300
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cgagtgtcc ggagcagatg gcgtgaggcc tctatcttgc tgggggactg accaccagc 780
caccatgtc cagaataaaa ccctcctctg cccamaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 848

```

<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

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gaagatgaag aagatgatgt gtcagagggc tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgccagc accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtga cccctgcgg accgcaccag ggccaggatg aaggcgggg gccagccccg 300
ggcagcggca cccgccaggt gttctccatg gcagccatga acaaggagg gggaacagct 360
tctkttgcca ccgggccaga ctccccgtcc cccgtgcctt tgccccagg caaaccagcc 420
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gatcccgtcg agtggaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcaggcga cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
cgcacagatg tgctcaccgg cctgtccatc cgcctcgggc cagccctgaa aatctacgag 660
caccacatca aggtgcttca gcaaggccac tttgaggatg atgacccga tggcttctta 720
ggctgagcgc ccagcctcac ccctgcccc gcccattccg gccccatct caccgaagat 780
ccccagagt ccaggagctg gacggggaca ccctcagccc tcataacaga ttccaaggag 840
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ttttctttct gttgattgtc gctccagctg gctgtattgc tttttaatat tgcaccgaag 1260

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ktttttttaa taaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
 aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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 ctttcacat gtgaggcagg gagccctgag cccttcagct gcctgcacaa cccctgacat 960
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 agactgtcag cctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1076

<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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 tgccctccca atgtccaggg ccctagctgt gaccgmtgtg cccccaactt ctggaacctc 120
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 gcaacgagtt cacagggcag tgccactgcs gtgcccgtt tggagggcgg acttggtctg 240
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 ctcgtggaat agatacacct cagtgtcacc gcttcacagg tctactgcagc tgccgcccag 360
 ggtgtctggt gtgcgtgtg accagtgtgc ccgtggcttc tcaggaatct ttctgcctg 420
 ccatccctgc catgcatgct tcggggattg ggaccgagtg gtgcaggact tggcagcccg 480
 tacacagcgc ctagagcagc gggcgagga gttgcaacag acgggtgtgc tgggtgcctt 540
 tgagagcagc ttctggcaca tgcaggagaa gctgggcatt gtgcagggca tcgtaggtgc 600
 ccgcaacacc tcagccgcct cactgcaca gcttgtggag gccacagagg agctgcggcg 660
 tgaaattggg gaggccactg agcacctgac tcagctcgag gcagacctga cagatgtgca 720

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aaaaaaaaaa aaaaaagaaa aaaaaa 2425

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<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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cgagcccagag ctggccgtgt cagcgccggg ccgcgtgcaa cctcatcggg gaacacacgg 180
actacaacca gggcctgggt ctgcctatgg ctctggagct catgacgggt ctggtgggca 240
gccccgcaa gnatgggctg gtgtctctcc tcaccacctc tgagggtgcc gatgagcccc 300

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agcggctgca gtttccactg cccacagccc agcgcctcgct ggagcctggg actcctcggt 360
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gtgcagtggt ggtcagctca gtgcccctgg ggggtggcct gtccagctca gcatccttg 480
aagtggccac gtacaccttc ctccagcagc tctgtccaga ctggggcaca atagctgccc 540
gcgcccaggt gtgtcagcag gccgagcaca gcttcgcagg gatgccctgt ggcatcatgg 600
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aacttgtgcc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aagaaaaaaa aaaaaaaaaa 1408
```

<210> 251

<211> 494

<212> DNA

<213> Homo sapiens

<400> 251

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cttgcctgtcc tccagctctg ctgaggagta cgtgggcctg tctgcaaacc agtgtgccgt 120
gccagccaag gacagggttg actgcggcta ccccatgtc accccaag agtgcaacaa 180
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cctttgctcc cggaagcgc ttctgctgaa agttcatatc tggagcctga tgtcttaacg 420
aataaaggct ccatgctcca ccgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg 494
```

<210> 252

<211> 2491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2457)

<223> n equals a,t,g, or c

<400> 252

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gactcgctcg acccgctcct cactcacgcc atgcagctgc tgacggcaga aattgagaag 240
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aagaacatga aactgaaaga gcgagtgtg atacctgtca agcagtatcc caagttcaat 360
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<210> 253

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 253

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cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggcc agtaaggctg 240
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taccaggtg gatttagaca agtaacagct gctcagcttc acctgagggg tccagtggca 600
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gaaaggttgc atctttttcc agatgagtat attccagaag atattcttaa gaatttagta 720
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aattgcagaa aataacagtg aagtgttga aactttcttc tgatgagttt ctctaacct 900
caggatggag taaaacaact gctacagttc agcacctgtt ttatgtgccg aatcactgtg 960
gggaaaggtc aggaagggtg agtccttcaa taggaaattg taattaaaat ataattttat 1020
agaaccattt ttatgtaatc tgatttgaat gttatagtgt ataataataa aatcacttac 1080
ttggttgact atttagtgtt gcatttaatg ataaaaaca gaccc 1125
```

<210> 254

<211> 1409

<212> DNA

<213> Homo sapiens

<400> 254

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cactttgtct tttcttaagt aattatggta tatataaggc gttgggaaaa aacattttat 60
aatgaaagta tgtagggagt caaatgctta ctgtaaatgc ataagagacg ttaaaaaata 120
cactgcactt tcaggaatgt ttgcttatgg tcctgattag aaagaaacag ttgtctatgc 180
tctgcaatgg tcaatgatga attactaatg ccttattttc taggcatata ataatagttt 240
agagaatgta gaccagataa atttgtttac tgttttaaga aaactaccag ttactttaca 300
gaagattctt ttttccaaac agtaggtttc atccaagacc atttgaagaa ctgcaaactc 360
tttctcttag aaaagaaaga gggcagccta aaataaacgc aaaatttgct tatactccat 420
cacattcaga tgtcttggtt gtgacttatt accagtgtgg cagagaaccc aagttacatt 480
ttagatcaaa atattcttta tgtaggattt gttaaaaggc tagagcctac aagttgctct 540
tccatgcgtt ggtcaggggg ccctgaaaac actggtaata ttaagagctt ttctcaggg 600
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ctatttttaag tattcagaaa agattttgat ccccatgtag ttaatgctct gccttgaaaa 780
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ccatttttta tagcctcaga aagaggaaat aatgcctcca ccattttcta cctggtgact 1200
tgaaaattga acttttaagt taggaagaag ttagagtcag ggaacttgta taccactatc 1260
```

```
tatgcagcat tgttatagtc tgattatttc tgtgttttga atatgatttt cctaattgctc 1320
taaataaaat tttgttaaaa attaatTTTT tatttaataga tgtgcaaata ttgaatattt 1380
tagtatattt attaaaagtg gtagtcatt 1409
```

<210> 255

<211> 490

<212> DNA

<213> Homo sapiens

<400> 255

```
accacacgct ccgcctctct gtcgtggcgc ggcttcccgc ggtcttctct gcaaattgggc 60
tccgtggcct agcgcctccg tccccgccac ccgtgatcgt gcgccgaggc ccgcgagggg 120
tcgccgcccga ggccgccttg gttccacttc cagcaacagc tcctgcagca gtaccgagtg 180
ccccggggaa gccattcccc acccccagcgt tctccccaag gctgaccgcg gtcattgggtg 240
ggccagcttc tttttcggga agtccaccct ccggttcagt gccacgggtg tggagtccgc 300
agagcactcg gaacctcccc aggcctccag cagcatgamc gcctgtggcc tggctcggga 360
agccccgagg aagcagcccc gcggtcagtc cagcamagcc agcgtgggc ccccgctcctg 420
aactgagcgg ttaacaacaa gccccaaagc tkcggaagcg ctagtycaac agagccctcc 480
gggccctttg 490
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<210> 256

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (931)

<223> n equals a,t,g, or c

<400> 256

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ggcagagggt ggctcggggc tatgagaacg tgccattcc ctgnttcacg gtgtggatgg 60
ggagccctgc cctgaggatt acaagtacat ctgagagaac tgcgagacgt ccaccatgaa 120
catcgatcgc aacatcaccc acctgcagca ctgcacgttt gtggacgact gctctagctc 180
caactgcctg tgcggccast tcagcatccg gtgctggtat gacaaggatg ggcgattgct 240
ccaggaaattt aacaagattg agcctccgct gattttcgag tgtaaccagg cgtgctcatg 300
ctggagaaaac tgcaagaacc gggctcgtaca gagtggcatc aagggtgcggc tacagctcta 360
ccgaacagcc aagatgggct ggggggtccg cgccctgcag accatccac aggggacctt 420
catctgcgag tatgtcgggg agctgatctc tgatgctgag gctgatgtga gagaggatga 480
ttcttacctc ttcgacttag acaacaagga tggagagggt tactgcatag atgcccgtta 540
ctatggcaac atcagccgct tcatcaacca cctgtgtgac cccaacatca ttcccgtccg 600
```



```

gntcttcatg ctgcaccaag acctgcgatt tccacgcac gccttcttca gttccccgaga 660
catccggact ggggaggagc taggggttga ctatggcgac cgcttctggg acatcaaaaag 720
caaatatttc acctgccaat gtggctctga gaagtgcaag cactcagccg aagccattgc 780
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tggccacccc ccgtgttccc catcctcagt tgaagtgtga tgaattgaag tcgggcctct 1140
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aac                                     1233

```

<210> 257

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2395)

<223> n equals a,t,g, or c

<400> 257

```

cggacggtgg gacgggsaag tgggggtgaa aagcgggccg acctgcttgc ggtgtagtgg 60
gcggaccgct cggtgggagg tgtgaggatc cgaaccagg ggtggggggt ggaggcggct 120
cctgcgcatc aaggggactt gagactcacc ggccgcacgc catgagggcc ctgtgggtgc 180
tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttgatg 240
tggtatggtac agtagaagag gatctgggta aaagtagaga aggatcaagg acggatgatg 300
aagtagtaca gagagaggaa gaagctattc agttggatgg attaaatgca tcacaaataa 360
gagaacttag agagaagtcg gaaaagtttg ccttccaagc cgaagttaac agaattgatg 420
aacttatcat caattcattg tataaaaata aagagatttt cctgagagaa ctgatttcaa 480
atgcttctga tgcttttagat aagataaggc taatatcact gactgatgaa aatgctcttt 540
ctggaaatga ggaactaaca gtcaaaatta agtgtgataa ggagaagaac ctgctgcatg 600
tcacagacac cggtgtagga atgaccagag aagagtgggt taaaaacctt ggtaccatag 660
ccaaatcttg gacaagcgag tttttaaaca aaatgactga agcacaggaa gatggccagt 720
caacttctga attgattggc cagtttgggt tcggtttcta ttccgccttc cttgtagcag 780
ataaggttat tgtcacttca aaacacaaca acgataacca gcacatctgg gagtctgact 840
ccaatgaatt ttctgtaatt gctgacccaa gaggaacac tctaggacgg ggaacgacaa 900
ttacccttgt cttaaaagaa gaagcatctg attaccttga attggataca attaaaaatc 960
tcgtcaaaaa atattcacag ttcataaaact ttcctattta tgtatggagc agcaagactg 1020
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```

```

atgatgaagc tgcagtagag gaagaagaag aagaaaagaa accaaagact aaaaaagttg 1140
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ttaccttgaa ttggatacaa ttaaaaatct cgtcaaaaaa tattcacagt tcataaactt 1260
tcctatttat gtatggagca gcaagactga aactgttgag gagcccatgg aggaagaaga 1320
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agaaaagaaa ccaaagacta aaaaagttga aaaaactgtc tgggactggg aacttatgaa 1440
tgatatcaaa ccaatatggc agagaccatc aaaagaagta gaagaagatg aatacaaaagc 1500
tttctacaaa tcattttcaa aggaaagtga tgaccccatg gcttatattc actttactgc 1560
tgaaggggaa gttaccttca aatcaatttt atttgtacc acatctgctc cacgtggtct 1620
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tgaagaccac tcgaatcgaa cacgtcttgc taaacttctt aggttccagt cttctcatca 1980
tccaactgac attactagcc tagaccagta tgtggaaaga atgaaggaaa aacaagacaa 2040
aatctacttc atggctgggt ccagcagaaa agaggctgaa tcttctccat ttgttgagcg 2100
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tcaggccctt cccgaatttg atgggaagag gttccagaat gttgccaagg aaggagtga 2220
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tctgctgaat tggatgaaa ataaagccct taagggcma g rtactgtggg aaattttacc 2340
aatttgtggg aaatattagt gtccggcatt tnaggggaaa gtttntttt ggggnaacca 2400
aatt 2404

```

<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2071)

<223> n equals a,t,g, or c

<400> 258

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gggacccgaa cccagcctct cccctacccg aacaccggcc ccggctccac cgaggcccg 180
gtccccagc ccgtctcgcc gccgccatgg cggaccctaa atacgccgac cttcccgca 240
ttgccaggaa tgagccagat gtttatgaaa ctagcgacct acctgaggat gatcaagcgg 300
agttcgatgc ggaggagctg acaagcacia gtgtggaaca catcattgtc aatcctaagt 360
ctgcctatga caagttcaag gacaagagag tggggacaaa gggacttgat ttctcagatc 420
gtattggaaa aaccaagagg acaggatatg aatctggaga atatgagatg cttggagagg 480
gtctgggagt gaaggagaca ccccagcaaa agtaccagcg cctactgcat gagggtccaag 540
agctgacaac tgaagttgaa aaaatcaaga cgacagtga ggagtcagcc acagaggaga 600
agctgacccc tgtgttgctg gctaaacagc tggcagccct gaagcagcag ctggttgctt 660
cccacctgga gaagctgctg ggaccagatg ctgcaatcaa ccttaccgac cccgatggcg 720
ccctggctaa gcgcctacta ctgcagctgg aagcaacaaa gaacagcaaa gggggatcag 780
ggggaaaaac cactgggacc ccccagata gcagccttgt cacttatgaa ctacattctc 840
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agattgcaa gcataaagcc tctgtagaag atgcagatac acaaagcaag gtgcaccagc 1140
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ctgctttgcc tgggtgtggg aaggattggg tcttgtcccc caacacagct tctgtggctg 1740
actgtaatac tgtacaactg tttctgacca ttaaatgctg ttgtactctg tgtggcctct 1800
gctgtgtttc ctggggagga agcagcacta ggatatagat attcattcgt cataacaggc 1860
aatctaagcc actctatact acaagagatg gatttaaatt gtaacctgtt cttaccaaag 1920
aactaaataa aaaaatgagta cagagccaga gccagagttt caaaatattc tcatctgtta 1980
aatgaagagt gtctcccata gaaaagcagt ggaggcccca cagggaagc acaaaacaga 2040
attaaaactc aaaaaaaaaa aaaaaaaanc ncaagggggg gcccggtccc ca 2092
```

<210> 259

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 259

```

aattcggcac gaggttcat tctctgacct ttctctctcc tcatttcggt gcatgtcctt 60
tctgcagctg cctttcagca cagggtgctg cccccaggg ccaccgcttc tttcttgatc 120
ctcttttcctt aacagtgact tgggcttgag tctggcaagg aaccttgctt ttagcttcac 180
caccaaggag agagaccaa agcctctgat ttttaatttc cataaaatgt tagaagtata 240
tatatacata tatataattc tttaaatttt tgagtctttg atatgtctaa aatcattcct 300
ctgcctgaag cctkagtgag cacatgarga actgtgttca ttaagtgtta ttaatgttga 360
actgaaaaaa aaaaacnggg ggggccg                                     387

```

<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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tatccccgac gaccggatcc tgaggaggca gctgcggtgg cagctgctga gttctcggtg 60
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tgaagattct tcgttgtaa gccgcaaaag tggagagtgc gattgcagaa gggggtgctt 180
ctcgtttcag tgcttcttcg ggcggaggag gaagtagggg tgcacctcag cactatccca 240
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aagaacgaca tgatgcaatc ttcaggaaaag taagaggcat actaaataag cttactcctg 420
aaaagtttga caagctatgc cttgagctcc tcaatgtggg tgtagagtct aaactcatcc 480
ttaaaggggt cactactgctg attgtggaca aagccctaga agagccaaag tatagctcac 540
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ttgtgactga atatctaaat agtggaatg caaatgaggc tgtcaatggt gtaagagaaa 1860
tgagggctcc taaacacttt cttcctgaga tgtaagcaa agtaatcatc ctgtcactag 1920

```

```

atagaagcga tgaagataaa gaaaaagcaa gttctttgat cagtttactc aaacaggaag 1980
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aactggaggt tgacatccct ttggtgaaat cctatttagc acagtttgca gctcgtgccca 2100
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ttcctctctt cctactttgt cttcagcagt tagctaaatt acaagatcga gaatggttaa 2220
cagaactttt tcaacaaagc aaggtcaata tgcagaaaat gctcccagaa attgatcaga 2280
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ataaatggat taaagataac atctctccca aacttcatgt agataaagga tttgtgaaca 2460
tcttaatgac tagcttctta cagtacattt ctagtgaagt aaaccccccc agcgatgaaa 2520
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tatagtattg aaattaagtc tacttaattt atcaagtcac gttcatgccc tgattttata 3600
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aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aggaaaaaaa aaaaaaaaaa aa 3712

```

<210> 261

<211> 897

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 261

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ccccggccaa tgtccctgct ctgcctggcg agacggtgac ctccccagtc aggctgcacc 120
ccgactacct ctccccggag gagatacaga ggcaagctgca ggacatcgag aggcggctgg 180
acgccctgga gctccgcggc gtggagctgg agaagcgact gcggcgggcc gagggagatg 240
acgctgagga tagcctcatg gtggactggg tctggctcat tcacgagaaq cagcttctgc 300
tgagacagga gtcagagctg atgtacaagt ccaaggccca gcgtctggag gagcagcagc 360
tggaacatcga gggcgagctg cgccggctca tggccaagcc cgaggctctg aagtcactgc 420
aggagcggcg gcgggagcag gagctgctgg agcartacgt gagcaccgtg aacgaccgca 480
rtgacatcgt ggactcgctk gacgaggacc ggctccsgga acaagaggag gatcagatgc 540

```

```

tgcgggacat gattgagaag ctgggcctcc agaggaagaa gtccaagttc cgcttgtcca 600
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ctcggcccgg acctggcatc cggacttgga ctccgggcca tgggcttggc ccggaccggg 720
aaccgggact tgtactcggg gccgtgggct cggcccgac ccggcattcg gacttggact 780
cggaagggc ctccctgtccc tacaaggggc atgtggacag cagggacctg cgctaccgtc 840
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<210> 262

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1791)

<223> n equals a,t,g, or c

<400> 262

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```

19
 gggagcagcc tccttgggcc tcaggaaacc accaagtgcc tcggatgggtg gctgcccacg 1740
 gcgcttctgc tgagaccctg cccccggccc aggtgtctcg gaggggtggct ncccacggcc 1800
 tgggtgtggc tggaatgggtg gcaggagtgg gcaccagtgc ggccccgggtg gccatgggga 1860
 ataaaccagc attgctgcca aaaaaaaaaa aaaaaaaaaa aaaaaa 1905

<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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 gtgactgttt gatttttaaaa agtgtgactg tcagttgtat ctgttgcttt tctcaatgat 180
 tcagggatac aaatgggctt ctctcattca ttaaaagaaa acgcgacatc tttctaagat 240
 tctctgtggg aaaatgactg tcaataaaaat gcgggtttct gggccattcg tcttactttc 300
 attttttgat taaaaatttc tcttgacgca cacaattatg tctgctaadc ctcttcttcc 360
 tagagagaga aactgtgctc cttcagtggt gctgccataa aggggtttgg ggaatcgatt 420
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 ttctacaggt ctttgcaaca aactgtcact ttcgtctcca gcagagggag ctgtaggaat 540
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 tgcattgatg ttcccatgta gtaagtcatt tttagtttgg ttgtgaaaaa accctgggct 1320
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 taaaattgaa actcactgga aaaaaaaaaa aaaaaaaaaa aaag 1424

<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1196)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1229)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1284)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1287)
 <223> n equals a,t,g, or c

<400> 264
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 ccgtcccgcg gccccagcc gcccccaacc ctgccccacg ggcccggcgc catgagttag 180
 ctggagcaac tgagacagga ggccgagcag ctccggaacc agatccggga tgcccgaaaa 240
 gcatgtgggg actcaacact gaccagatc acagctgggc tggacccagt ggggagaatc 300
 cagatgagga cccggaggac cctccgtggg cacctggcaa agatctatgc catgcactgg 360
 gggaccgact caaggctgct ggtcagcgcc tcccaggatg ggaagctcat catctgggac 420
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 gcctacgcgc cctcagggaa ctttgtggcc tgtggggggt tggacaacat ctgctccatc 540
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 ggtacctgtc gtgttgccgc ttcctggatg acaaccaa atcaccagc tctggggata 660
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 gtggggatgt gatgtccctg tccctggccc ccgatggccg cacgtttgtg tcaggcgcct 780
 gtgatgcctc tatcaagctg tgggacgtgc gggattccat gtgccgacag accttcacg 840
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<210> 265
 <211> 991
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (966)

<223> n equals a,t,g, or c

<400> 265

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ccctggagct cttccgaacc aaggatgaatg cgctcactta tggggaggtg ctgcggctgc 180
ggcagactga acggctgcac caggagggca cactggctcc ccctatactg gagctgcggg 240
agaagctgaa gccagagctc atgggcctga tccgccagca gcgcttgctc cgcctctgtg 300
aggggacgct cttccgcaag atcagcagcc ggcggcgcca ggataagctg tggttctgct 360
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caaggactgc cccatgttcc gggagaagg ctccgggaag cagaacaagg acctctatga 540
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aaaaanaaaa aaaaaaaaaa aaaaaaaaaa a
991

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<210> 266

<211> 2320

<212> DNA

<213> Homo sapiens

<400> 266

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cggcctgcgc ccggcccggt catggcggtc ccccgccggt ctcccgcat ctccgtttcg 180
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cgcgcgcccc ctccccgat cgaggaatca tttccccctg cgcctctgga ggaggagatc 480
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caccacagcc cagggagaag gtgagcagta ttgatttggg gatcgactct ctgtcctcac 600
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cagcaccctt gcctccttgg aagtcctctt ccagctccca gcctctgccc caggttccgg 780
ctccggtcca gagccagaca cagttccatg ttcagcccca gccccagccc aagcctcagg 840
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```

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tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2320
```

<210> 267

<211> 423

<212> DNA

<213> Homo sapiens

<400> 267

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acagcaaaact gtcattggca ttgctacaaa gattgcccta cagatgaact gcaagatggg 120
aggrgagctc tggaggggtg acatccccct gaagctcgtg atgatcgtt gcatcgattg 180
tkaccatgac atgacagctg ggcgagggtc aatcgcagga tttgttgcca gcatcaatga 240
agggatgacc cgctgggttc cagctgcat atttcaggat agaggacagg agctggtaga 300
tgggctcaaa gtctgcctgc aagcggctct gagggcttgg aatagctgca atgagtacat 360
gccagccgg atcatcgtgt accsgtggtg gtaggagacg gccagytgaa aacactgggtg 420
act 423
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<210> 268

<211> 1846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1816)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<400> 268

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tcactcagag gaaaaatgaa aaggaacaag aaagaagatt gcagcaggca gtgttaagca 180
gacagatgcc gtctgaaagc ttggacccag cgttcagtcc tcggatgccg tcctctgggt 240
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gactgaagta tcctggaagt ggggctgacc ttcctcctcc ccaaagagca gctggagaca 480
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ggaacactca gacctcccag atttaactaa acaaaagaaa ctctccacct agcactgttt 660
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cagatacctt aactcccgag aagagagtcc ttgtgcacag aacttgtggg agcctccatc 780
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tagccctgag gtagttcatg aaaatgctgt gcactncatt ccatggggaat gaaatgttgg 1800
aaagctgatc ttttcnggat ataaaatgtt gnatgatgaa aaaaaa 1846
```

<210> 269

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 269

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gtctcatact ctacaccagt attgctgtcc tactcaggtc cttgactcca tgaagcttac 180
cccctcaggc aggctggcag agagcagggg agaggaggag gaggaggaga ctgagggaaga 240
ggaagaggaa gacgctcacc agttctgctg tccggcctcc gagtgcagta gtccctcctc 300
tcggtaactg agaggacaag ggccattttc tatgcagaag caaaagcctt aaccagsccc 360
tccttcccc caccacccc cccgcagatt ccccatggg accctgtccc ctgcttcagg 420
aaccagatgg gcaagcatcg tgccccctcc tccccccacc ttcttcttgg aattcccatc 480
cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
gactaaaatt tggganaagc aaacttggac ttggacttgg aactggatcc tcccgtagcc 600
g 601
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<210> 270

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (876)

<223> n equals a,t,g, or c

<400> 270

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cttgctaagt tgagatcagc tagacctgct ttcttttctc ctcagtcttg catttccttc 180
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aatctattct gtatccacca ggtggcagca tcttgtcata cgtgtcagga cttaggactg 480
cgggggtttg gtagatgtc acggaaaaag ctagtctgtg ggtcaggcgg caccaatgag 540
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ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tggttcttcc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatttc caccacagca 720
gattttaaga aattataata tgtaatatgt gatattctata aagagtatat ctaacgtgaa 780
taaattatga agcatactaa tgagtaccta tgaccataa cacatatata ttaaacatt 840
ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 880
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<210> 271

<211> 2484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 751

<212> DNA

<213> Homo sapiens

<400> 272

```

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caagggtcaag aaatcccaca gtttgatgta ttaaagaaat gacttatctt tactcaaaat 660
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```

<210> 273

<211> 3309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3279)

<223> n equals a,t,g, or c

<400> 273

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gtggttacac agttgacctc tgcctggctc ccccttggtg caactcctgc ctccatcccc 600

```

```

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caagtacact ccacacatgc ataaaggaaa tcaaatgtta ttttaagaa aatggaaa 3240
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ttcgctaa 3309

```

<210> 274

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<400> 274

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cccagccaag aggcagttag gcaccttctg cctgcacctt ggtgggcaga cccagtctct 720
tcattgcagt caacttgttc acaggggaaa ccttggaaac cacagccagc agttcagggn 780
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tgt                                                    843

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<210> 275

<211> 2028

<212> DNA

<213> Homo sapiens

<400> 275

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ttgaacctct ttatagcatt gatactaggt gaacagaaat tacctgacta ataatttgtc 180
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<210> 276

<211> 1455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1408)

<223> n equals a,t,g, or c

<400> 276

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```

<210> 277

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 277

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cgcggtcttct gtgggcccga accttaaaga tagccgcaat ggctgaaaat ggtgataatg 180
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aggctgggct ttgnatattt acacaggaaa gttgggtaac actagaaata attacttggg 1860

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215

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<400> 280

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ggtttactta atcaggacat gggcctaaga acaaaccttt tcccttcatt ataactcca 180
tagacaactt attagaaggg actagagttt ttgcaaattt ccctgctgga tggggcctat 240
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tccctttgct atactgtgat ccttagtatg ttaattctta agaaaccaac atatcactga 660
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<210> 281

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 281

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tgtgtctgtt gtgtcttggt gcgggcaccg cagtcgcctg gaagatggcg tctaccagcc 240
gtttggatgc tcttccaaga gtcacatgtc caaacatcc agatgcatg ttagtgagg 300
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<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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cttcgcgggc tgcatgctgt tccccacat ctccccctgt gaggtgcgcg tgctcatgct 540
cctgtactcg tccaagaaga agatcttcat gggcctcatc ccctacgacc agagcggcctt 600
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caactcaggc ccagtccaga tcgtcaacaa caagtttctg gcatggagtg gtgtcatgga 720
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<210> 283

<211> 1556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 283

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<210> 284

<211> 1029

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

220

<220>
 <221> misc feature
 <222> (958)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (972)
 <223> n equals a,t,g, or c

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<220>
 <221> misc feature
 <222> (987)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1007)
 <223> n equals a,t,g, or c

<400> 284
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<210> 285
 <211> 1583
 <212> DNA
 <213> Homo sapiens

<220>

221

<221> misc feature
 <222> (1411)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1531)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1557)
 <223> n equals a,t,g, or c

<400> 285
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<210> 286
 <211> 1177
 <212> DNA
 <213> Homo sapiens

<400> 286
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tagttaccaa atataatatg gtagaaaagg ctaaatacata cttaatgagc aaattgaagt 180
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aaaaaaaaa aaaaaaaaaa accccccggg ggggccc 1177
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<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

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tagtggttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaatatt gcaaatggtc aattcgattt taatttctca aaagatactc tggtatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
```

223

```

agaatggcca gtaagttaag ccttttttga tccnggtaat ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggccca gagggaggtt tggtttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt 506

```

```

<210> 288
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (926)
<223> n equals a,t,g, or c

```

```

<400> 288
ttnggccgag cttgggtcat ggcggcgccg ggcgcgctgc tggatgatggg cgtgagcggc 60
tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcaccggga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaaggga agcaaagcag 360
gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggtcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaa atcaatgatca gaggaatttc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
cacaaataaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

```

```

<210> 289
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

```

```

<400> 289
ggcacgagct cgtgccggtt tgacctggag catgggtcct ggaccaaatt gccccgcagc 60
ctgcgcata gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120
gccattgggg gccttgga aa ccagccatgt cctttgggct ctgtggagag ctttagcctt 180

```

```

gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
ctgcaggctg ggccccggct gttgtttatt gggggtgtgg cccagggccc cagtcaagcc 300
tgaggagcac tgtgtctgcg tgatgggggc tgaaggcttg gtgggagctg tccactggag 360
cagctcattg ccagangmrg ctatttctat ggctcctttt gctgctgagg aactcactg 420
tggtctctgt ggatgagaga ggcatggggg tgagcacttg aaacactgcc ttggggcctt 480
gggttagggg agcctttgtc tttagtgcag gacacacata tgcttacacc tacctttatc 540
accattcgtt catgaatcat gcctagctcc atccttgccc tgggacctac taggccttcc 600
atccaactgg gaaatgggga gaagcaaagc tggcctcatg ctcttcaggg tcagttccta 660
tctggagttg accaggccta cccagttgc cattcctgaa aaatctcagc tgccaggctg 720
cctttagggt cctgttagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
gaggatgttg gaactgccag agggccggag cgcaggagt caagtggagg aatgctggct 840
ttgagccctc tacactgctg gttgtatgac cttggacaag tcacttcacc tctctgtgcc 900
tcagcatcct catctataaa tggggatctc tgaaaccttc ctaccctacc tacctcacag 960
ggctgttgtg aggaccagg gagtttgat gtggaagtaa aagtgtgct aaaacctaaa 1020
aaaaaaaaaa aaaa 1034

```

<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

```

cccagtagct cgtgccgctc gtgnccgcca actctcagtt tgatcttaaa gtctgaataa 60
taaaacaaat cccagcagta atacatttct taaacctcac agtgcagatg atactctttc 120
attctgatcc tgtgtttgca aaaaataaca catgtatata atagttcctc actttttatt 180
catttgtttt cctattacct gtagtaataa tattagttag tacatggaat ttatagcatc 240
agctaccccc aggaacagca cctgacaggc gggggatttt ttttcaagtt gttctacatt 300
tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc acactagtcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcactaatg ttcattatca 420
tgggtattgat ggacctaaag aaataaaaaa tagactaagc ccccaataa gctgcatgca 480
tttgtaacay gattagtaga tttgaatata tagatgtagt attttgggta tctaggtgtt 540
ttatcattat gtaaagggaat taaagtaaa gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag catttttagat 660
atgccttaat ttagaaactg tgccagggtg ccctcggaat agatgccagg cagagaccag 720
tgccctgggtg gtgcctcctc ttgtctgccc tcatgaagaa gcttccctca cgtgatgtag 780
tgccctcgta ggtgtcatgt ggagtagtgg gaacaggcag tactgttgag aggagagcag 840
tgtgagagtt tttctgtaga agcagaactg tcagcttgtg ccttgaggct tccagaacgt 900
gtcagatgga gaagtccaag tttccatgct tcaggcaact tagctgtgta cagaagcaat 960
ccagtgtggt aataaaaagc aaggattgcc tgtataattt attataaaat aaaagggatt 1020
ttaacaacca acaattccca acacctcaaa agcttggttc attttttggg atttgagggt 1080
tttatctgaa ggttaaaggg caagtgtttg gtatagaaga gcagtatgtg ttaagaaaag 1140
aaaaatattg gttcgcgtag agtgcaaat agaactagaa agttttatac gattatcatt 1200
ttgagatgtg ttaaagtagg ttttactgtt aaaatgtatt agtgtttctg cattgccata 1260
gggcctggtt aaaactttct cttaggtttc aggaagactg tcacatacag taagcttttt 1320
tccttctgac ttataataga aaatgttttg aaagtaaaaa aaaaaaatc taatttggaa 1380
atgtgacttg ttagtttctg tgtttgaat catggttcta gaaatgtaga aattgtgtat 1440

```

```

atcagatact catctaggct gtgtgaacca gccaagatg accaacaatcc ccacacctct 1500
acatctctgt cccctgtatc tcttcctttc taccactaaa gtgttccctg ctaccatcct 1560
ggcttgtcca catggtgtctc tccatcttcc tccacatcat ggaccacagg tgtgcctgtc 1620
taggcctggc caccactccc aacttgacct agccacattc atctagagat ggttcctgat 1680
gctgggcaca gactgtgtctc atggcaccca ttagaaatgc ctctagcatc tttgtatgca 1740
tcttgatttt taaaccaagt cattgtacag agcattcagt tttggctgtg gtaccaagag 1800
aaaaactaat caagaatata aaccacattc caggctgctg ttttctctcc atctacaggc 1860
cacactttta ctgtatttct tcatacttga aattcattct gctattttca tatcagggtta 1920
cagacttata aggggtgcatg ttccttaaag gtgcataatt attcttattc cgtttgctta 1980
tattgctaca gaatgctctg ttttggtgct ttgagttctg cagacccaag aagcagtgtg 2040
gaaattcact gcctgggaca cagtcttata agaatggttg cagggtgactt tgtatcagat 2100
gttgcttctc ttttctctgt acacagattg agagttacca cagtggcctg tcgggtccac 2160
cctgtgggtg cagcacagct ctctgaaagc aagaaccttc ctacctattc taacgttttt 2220
gccctctaag aaaaatggcc tcaggtatgg tatagacata gcaagagggg aagggtgtgc 2280
tcaactctagc aaccatccct ccattacaca cagaaagccc tcttgaagca aaagaagaag 2340
aaagaaagaa agcttatctc taaggctact gtcttcagaa tgctctgagc tgaatgctct 2400
tgctcctttc ccaagaggca gatgaaaata tagccagttt atctataccc ttcctatctg 2460
aggaggagaa tagaaaagta gggtaaatat gtaacgtaaa atatgtcatt caaggaccac 2520
caaaacttta agtaccctat cattaaaaat ctggttttta aagtagctca agtaagggat 2580
gctttgtgac ccagggtttc tgaagtcaga tagccattct tacctgcccc ttactctgac 2640
ttattgggaa agggagaact gcagtgggtg ttctgttgca gtggcaaagg taacatgtca 2700
gaaaattcag aggggtgcat accaataatc ctttggaac tggtgtctt actgggtgct 2760
agaatgaaaa tgtaggtatt tattgtcaga tgatgaagtt cattgttttt ttcaaaattg 2820
gtgttgaaat atcactgtcc aatgtgttca cttatgtgaa agctaaattg aatgaggcaa 2880
aaagagcaaa tagtttgtat atttgaata ccttttgtat ttcttacaat aaaaatattg 2940
gtagcaataa aaaataataa aaacaataac tttaaactgc tttctggaga tgaattactc 3000
tcctggctat tttctttttt actttaatgt aaaatgagta taactgtagt gagtaaaatt 3060
cattaaattc caagtttttag caaaaaaaaaa a 3091

```

<210> 291

<211> 518

<212> DNA

<213> Homo sapiens

<400> 291

```

aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccgggtggc cgtgcagtgt gtggctctgc cctggcaaga agagtgtgtg ctgcggttca 180
tgccgggaggt ggagcgactg atgacctctg aaaagcagtc atcctgatgg ctctggctcc 240
agaggacctg agactcacac tctctgcagc ccagcctagt cagggcacag ctgccctgct 300
gccacagcaa ggaaatgtcc tgcattgggc agaggcttcc gtgtcctctc cccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgtcctgatc cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

```

<210> 292

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (479)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (489)
 <223> n equals a,t,g, or c

<400> 292
 ctctgtgccga attcggcacg agcaacgtcg ctccagctgc tcttgacgac tccacagata 60
 ccccgaaagcc atggcaagca agggcttgca ggacctgaag caacaggtgg aggggaccgc 120
 ccaggaagcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180
 ggcggggcag aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240
 tgctaaccag gcctctgaca ccttctctgg gatcgggaaa aaattcggcc tcctgaaatg 300
 acagcaggga gacttggtgc ggcctcctga aatgayagca gggagacttg ggtgaccccc 360
 cttccaggcg ccatctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420
 tctgccccct cattaaaatt cacgttncca aaaaaaaaaa raaagggngg ccgcntagn 480
 gntccaagnt tagttacg 498

<210> 293
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 293
 ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
 gatccaacgt cgctccagct gctcttgacg actccacaga taccgccgaag ccatggcaag 120
 caagggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180
 ccagctggcc aagaccacc aggaaccat cgacaagact gctaaccagg cctctgacac 240
 cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttggtctg 300

227

gcctcctgaa atgayagcag ggagacttgg gtgacccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa ggggggcccg gtccccatt 469

<210> 294

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 294

gcacagaagg gggaggccaa agtgggtggg agcgcgtgct gttgggagtt gcttggaggt 60
tggcggcgcg gggctgaagg ctagcaaacc gagcgatcat gtcgcacaaa caaatttact 120
attcggacaa atacgacgac gaggagtgtg agtatcgaca tgcatgctg cccaaggaca 180
tagccaagct ggtccctaaa acccatctga tgtctgaatc tgaatggagg aatcttggcg 240
ttcagcagag tcagggatgg gtccattata tgatccatga accagaacct cacatcttgc 300
tgttccggcg cccactacct aagaaaccaa agaaatgaag ctggcaagct acttttcagc 360
ctcaagcttt acacagctgt ccttacttcc taacatcttt ctgataacat tattatgttg 420
ccttcttggt tctcactttg atatttaaaa gatgttcaat aactgtttg aatgtgctgg 480
taactgcttt gcttcttgag tagagccacc accaccatag cccagccaga tgagtgtctt 540
gtggaccaca gcctaagctg agtgtgancc cagaagccac gatgtgctct gtatccagac 600
acacttggca gatggaggaa gcatctgatt gagacatggg gtacaggctn gnaatgcngt 660
ttgttttc 668

<210> 295

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 295

gctttgtcct ccagtggctg gtaggcagtg gctgggaggc agcggcccaa ttagtgctcg 60
gcggcccgtg gcgaggcgag gtccggggag cgagcgagca agcaaggcgg gaggggtgct 120

```

cggagctgcg gcggctggca caggaggagg agcccgggcg ggcgaggggc ggccggagag 180
cgccagggcc tgagctgccg gagcggcgcc tgtgagttag tgcagaaagc aggcgcccgc 240
gcgctagccg tggcaggagc agcccgcacg ccgcgctctc tccctgggcg acctgcagtt 300
tgcaatatga ctttgaggga attctcggct ggagagcaga agaccgaaag gatggataag 360
gtgggggatg ccctggaggga agtgctcagc aaagccctga gtcagcgcac gatcactgtc 420
ggggtgtacg aagcggccaa gctgctcaac gtcgaccccg ataacgtggg gttgtgcctg 480
ytggcgggcg acgaggacga cgacagagat gtggctctgc agatccactt caccctgac 540
caggcgtttt gctgcgagaa cgacatcaac atcctgcgcg tcacaacccg ggccggctgg 600
cggastcctg ctcttgagga ccgacgctgg ccccgcgggc agcgagggcg ccgagcagcc 660
cccgacctg cactgcgtgt ggtgacgaat ccacattcat ctcaatggaa ggatcctgcc 720
ttaagtcaac ttatttgttt ttgccgggaa agtcgctaca tggatcaatg ggttccagt 780
attaatctcc ctgaacggtg atggcatctg aatgaaaata actgaaccaa attgcactga 840
agtttttgaa atacctttgt agttactcaa gcagttactc cctacactga tgcaaggatt 900
acagaaactg atgccaaagg gctgagttag ttcaactaca tgttctgggg gcccgagat 960
agatgacttt gcagatggaa agaggtgaaa atgaagaagg aagctgtgtt gaaacagaaa 1020
aataagtcaa aaggaacaaa aattacaaag aaccatgcag gaaggaaaac tatgtattaa 1080
tttagaatgg ttgagttaca ttaaaataaa ccaaatatgt taaagttaa gtgtgcagcc 1140
atagtttggg tatttttggg ttatatgcc tcaagtaaaa gaaaagccga aagggttaat 1200
catatttgaa aaccataatt tattgtattt tgatgagata tttaattctc aaagttttat 1260
tataaattct actaagttat tttatgacat gaaaagttat ttatgctata aattttttga 1320
aacacaatac ctacaataaa ctggtatgaa taattgcatc aaaaaaaaaa aagggggggc 1380
gctcgcgatc tagaaactag                                     1400

```

<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

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gtcagcccgga gcccggtgcr gcccctttaag ggccggggggc gtgtagcggg cccgccccct 60
ccccgcggcg cccgcagtcg gttaagtgcg agccccggcg cagggggccg atctggccgg 120
gggcccggcg cggtgtggga gcggcgcgtc atgtacacca tcaccaagg gcccagcaag 180
ctggtcgcgc agcgcgcgac aggtcccacg cagcagcagg tggagggccg gctcggcgag 240
ctcctgaaat gccggcagcc cgcgcgcggc acctcgcagc ccccgcgggc gcagccyttt 300
gcgcascgcc gggaccctgg cccctgtcga gtccaggggc aaggcttggt ttcaatcgtg 360
tgaatggccg gcgggcccc tccacgtccc catccttcga ggggaccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
agctggatgg tggcccagcc ggtgagggcg ggccaaggcc tgtgcagtac gtggagagga 540
cccccaatcc ccggtgcag aactttgtgc ccattgacct agacgagtgg tgggcgcanc 600
agttcctggc gagaatcacc agctgttcct agtggctgct gggagggggc gctgctacac 660
ggccgacctg tcgcccagg agaaagcatg cgccctgccc acccactgcg cctggctggg 720
tgccggccac acctgaagtg ccagcatttg gacttttgca ccttttttcc ccttgccccg 780
gctgtcccaa ccaagctgcc atgccaagg ccgaaccgt ctgacctcag ccctgctcac 840
tgtgcccagg gaccagcgna caccctggg gctggcagg aggagctcca ggctaataaa 900
gtggagaaac tgtcaaaaaa aaaaaaaaaa aanctcgagg gggggcccg ncccaattnc 960
```

<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

```
caaaagctgg agctccaccg cggtgacgnc cgctctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagctc gtgccngncc tttggagcag agaggaggca atggccacca 120
tggaagaaca ggtgatctgc gccctggtcc tgggtgtccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg cccccgtga aagacagaat tgtgggtttc 240
ctgggtgtcac gccctcccg tgtgcaaata agggctgctg tttcgacgac accgttcgtg 300
```

```

gggtcccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtggtgaat 360
tttagacact tctgcaggga tctgcctgca tcctgacgcg gtgccgtccc cagcacggtg 420
attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480
tgccctcggt cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaagggcg gccgtctaag 600
aggatccaag cttacgtaac gcgtgcatgc gaaggtcata gctcttctat agtgtca 657

```

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

```

gcagccaggc tctcaggga ggtccatgct gcttggcctg agttcaaggc tttctgcctg 60
tagcctggac tcccgtggac ccccgaggc aggtggcttc cccgtggcat ctccacaccg 120
cctctgcctg cccctgtgga ctgatgctat cgcgcaccgt cccacgacct caccgagc 180
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcaccccca ctctcctgag 240
agcagtggc acagcggccg gccgctctgc tgagaaggca gagaggcagg ctcaggcctc 300
agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggccctt cagaattcct 360
caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca gttgagggga 420
cttagtctca atcccaggct cctcttgact ctgggcagct ttaatcaggc tgggcagcct 480
ctgctacagc gtggagtggg atggctctct tccctcagcc acgccgcttg tgaggacaga 540
ggtgggggag tgggaagtgg gaagtcacca gagaacagga gagggatttg agggcgcgac 600
cccagcgctc tccacggacc agccagaggg actggagcca ggtgtgcatg ggttcaaggc 660
cctggccctg cccagcctct gtcttgggag ctcagcccca gggttcggtc gtcagcagtt 720
tccaagaac aagatgtgat ggcattctgt gctgaaacct tgatgaggac caggccccct 780
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaa aaaaaaaaaa 840
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac tc 892

```

<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

```

cccgggctgc aggaattcgg cagagagag gaggtccac aggtcctgc cctggrctac 60

```

```

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<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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gtccttccgc aaagtgttcc ggcagagcaa attccggcat gtgttcgggc agccggtcaa 180
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacgga cgctcgtggg 1969

```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaatg 1860
ggaataaaaa taacaaaaaa at 1882

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<210> 302

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 302

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<210> 303

<211> 3859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<400> 303

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tcctgggaaa ctgctaccag ttcagagagg ggtgtggggg gttggtggca ctatgtggcg 180
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<210> 304

<211> 3378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3365)

<223> n equals a,t,g, or c

<400> 304

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<213> Homo sapiens

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<221> misc feature
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<212> DNA

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<210> 310

<211> 2086

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 310

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cgccctccca cgccgtcaga gatcctcagc aacgcgggtc tcaggtttga ggtgggtccc 180
tccaagttta aagagaagct ggacaaagcc tccttcgcta ctccgtatgg gtacgccatg 240
gagaccgcca agcagaaggc cctggagggtg gcccaaccggc tgtaccagaa agacctgcgg 300

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gcccccgacg tggtcattgg agcggacacg atcgtgacag tcggggggct gattctggag 360
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aagaaagcaa aagccaaaaa aaaaaaaaaa aaaaatttgg gggggg 2086

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<210> 311

<211> 2163

<212> DNA

<213> Homo sapiens

<400> 311

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aaa 2163

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<210> 312

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<400> 312

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ggtccttca ggaagggggg gcgttgggaa aagcaccatc tccacggagc tggccctggc 180
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ctgcacggag tgcaccagcg tcttctccag gggcggcgga gaggagctgg cccagctcgc 720
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ggggagtgcy ccctaagggg gcgaactgac ctcaggcatg tcttgtaact gtagaggcgc 1320
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aaaaaaaaaa aaaaaan                                     1397
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<210> 313

<211> 4106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 313

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<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 314

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ccatgcccga gtgtcccaag tgcaacaagg aggtgtactt cgcgagaggg gtgacctctc 180
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ttgtcccag atgccagggg ctcccttggt gccctaatag ctctcagtaa acctgaacac 480
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<210> 315

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1455)

<223> n equals a,t,g, or c

<400> 315

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gagtgtggct tctgcctgcg ccagtttccc cgctccctcc tggagaggca ccagaaagag 480
gaatgccacg gacagggtaa cccagtgcga gtacaaacgc atcggctgcc catggcacgg 540
ccccttccat gagctgacgg tgcacgaggc tgcgtgcgcc caccgacca agacaggcag 600
tgagctgatg gagatcctgg atgggatgga ccagagccac cgcaaggaga tgcagctgta 660
```

```

caacagcatc ttcagcctgc tcagcttcga gaagattggc tacacagagg tccagttccg 720
gccgtaccgc acagacgact tcatcacgcg cctgtactat gagacgccc a ggttcacagt 780
gctgaaccag acgtgggtcc tgaaggctcg agtcaacgac tcggagcgta accccaacct 840
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ggagtgtccc ttcctgctgc tcaagggtccc ctacgacgac gtgaggatca gccccgtcat 960
ctaccacttt gtcttcacca acgagagcaa cgagacggac tacgtgccac tgcccatcat 1020
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gttccagata cagaagtagg gcggggcctc aggatgtccg aggagcccac gggcggcac 1140
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gcagcaagga ggcgagagg cacagcgacc ctgccccagc cttctgtgc agtcaggcgg 1440
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gatattcgaa tatctgatag caattaaaag gcagccttgt ttcgtacttt ctgttttgtt 1560
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agggtcagc aggcattttc ggaaagcagg gtgaaattgt ctcttcccag gaaaaagatt 1860
aaactccttg caggctcttg gataagttac acaaaaaaa aaaaaaaaag ggcgcccgt 1920
cgcatctag aactagtc

```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

```

gcggccgccc ggcgccccca gcagcccag ccggggcgca cagccggggc gcagncgcgc 60
cccccgccgc gattgacatg atgtttccac aaagcaggca ttcggggtcc tcgcacctac 120
cccagcaact caaattcacc acctcgact cctgcgaccg catcaaagac gaatttcagc 180
tactgcaagc tcagtaccac agcctcaagc tcgaatgtga caagttaggc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgcacaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtcctgccct 360
acctctccca agagcaccag cagcaggtct tgggagccat tgagaggggc aagcaggtca 420

```

```

ccgctcccga gctgaactct atcatccgac agcagctcca agcccaccag ctgtcccagc 480
tgcaggccct ggccctgccc ttgacccac taccctggg gctgcagccg ccttcgctgc 540
cggcggtcag cgcaggcacc ggccctcctct cgctgtccgc gctgggttcc caggcccacc 600
tctccaaggga agacaagaac gggcacgatg gtgacacca ccaggaggat gatggcgaga 660
agtcggatta gcagggggcc gggacaggga gggtgggarg ggggacarag gggagacaga 720
ggcacggaga gaaaggaatg tttagcacia gacacagcgg agctcgggat tggctaaayt 780
ccatagtatt atgktggccc gggggggggc ccanccan 818

```

<210> 317

<211> 837

<212> DNA

<213> Homo sapiens

<400> 317

```

gggcacgagc gacatggagc tgttcctcgc gggccgccgg gtgctggtca ccggggcagg 60
caaaggtata gggcgcgcca cggccaggc gctgcacgcg acgggcgcgc ggggtggtgc 120
tgtgagccgg actcaggcgg atcttgacag ccttgctcgc gagtgcccg ggatagaacc 180
cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc 240
cgtggacctg ctggtgaaca acgcccgtgt cgcctgtctg cagcccttcc tggagggtcac 300
caaggaggcc tttagacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcrca 360
gattgtggcc agggggcttaa tagcccgggg agtcccaggg gccatcgtga atgtctccag 420
ccagtgtccc cagcgggcag taactaacca tagcgtctac tgctccacca aggtgtccct 480
ggacatgctg accaaggtga tggccctaga gctcggggcc cacaagatcc gagtgaatgc 540
agtaaaccac acagtgggtg tgacgtccat gggccaggcc acctggagtg acccccacaa 600
ggccaagact atgtctgaacc gaatcccact tggcaagttt gctgaggtag agcacgtggt 660
gaacgccatc ctctttctgc tgagtgaccg aagtggcatg accacgggtt ccactttgcc 720
gggtggaagg ggcttctggg cctgctgagc tccctccaca cacctcaagc cccatgccgt 780
gctcatccta cccccaatcc ctccaataaa cctgattctg ctgccccaaa aaaacga 837

```

<210> 318

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<400> 318

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gggtctggag agcaggactg ggtcaacagg cccaagaccg tgcgcgacac gctgctggcg 60
ctgcaccagc acggccactc ggggccttcg agagcaagtt taagaaggag ccggccytga 120
ctgcaggcag gttgttgggt ttcgaggcca acggggccaa cgggtctaaa gcaggtaggg 180
gcggctgtga agtgaggggg tctaggggag aaaaggggac ggagagcaga ggaaggggtg 240
ttctttggat tcaccathtt accccagccc agaaacaaca aacaccccac ttcctgatct 300
cctgaggcgg aaccagtgtc tgggtggcaac gtgttcattg ctgaagcagc ataacaaaga 360
atgagtcaga ctgggctgat acgctctgaa cacgggggtt tcctttccca gcacattctt 420
ggatgggagc atgagggcac cagtcacctt twaacctatt gggggacatt agcagtcaca 480
tgttgagtgc aaacgaggta cttttgtgca tgtktaaaaa caggcagtta caagcgtgtc 540
atthtcagtg gctccathtt aaatcagtct gctgcctcag aatcccgtac gcctgaaggt 600
tttaagttgc atgtgcacct gaaactcgta tatgagtatt ttctgtctgt gcttttagag 660
aggaggaatt ctgtaacgac ttttgtttcg ggtaggaag agaattgatct ctttcagtgc 720
accgccactt atgttacctt tttcctttta tttctttgtg tttccagttg caagaacagc 780
aaggaaaagg aagccctctc cagaaccaga aggtgaagtc gggcccccta agatcaacgg 840
agaggccag ccgtggstgt ccacatccac agaggggntc aagatcccca tgactcctac 900
atcctctttt gtgtctccgc caccacccac tgctcacct cattccaacc ggaccacacc 960
gcctgaagcg gcccagaatg gccagtcccc catggcagcc ctgatcttag tagcagacaa 1020
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tagcaacagt ccgccctctc cgtcctctat gaacaaaaga aggctgggce ccagagaggt 1140
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ggacttctct ctggcaacca gtgccccgct gtgctgcacc ctctgccacg agcggctgga 1260
ggacaaccat tttgtgcagt gccgtccgtc ctttgacaag ttctcttctt tgctcagaca 1320
aagataaaca gagggagtag tgagaggctt ttccagtggg gaaaaatgcct ctgtgggtca 1380
atgtccctgg gcttntnaag ggaattcaa catcttcttg ggtgtaagtg aaaaaaaaaa 1440
aaacntgg                                     1448
```

<210> 319

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 319

```
tcgacccacg cgtccggaag taatgatgac aaaatactct aacctttcct tggagagtca 60
taacttctcg ctgactgctt cacctcttac aagtctgccc atcccggaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagtg ccacagaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagaggaaa aggaacgaag 420
gggcacattt aatttcggag tccctgaagt tcagagaaaa aacaaacat tgatcactta 480
tgtgggggat tccgttgtct tgggtgtgta atgccgacac tgtgtctcct taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600
```

252

```
tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaagtgt 720
tgaactgggt gtgataagtt atttgggtgcc cctcaaacca tttcttgga tagttgttga 780
agttatttct ttagtggcta ttattctggt ttgtgaaatg cacacccaaa agaaaaagat 840
gcacatggat gatgggaaag aatttgaaca agttgaacag ttgaaatcag acgatagcaa 900
cggcatagaa aataatgccc ccaggcacag aaaaaatgaa gctatgagcc agtgaaagca 960
aaacatcgtg tcaagagtaa tgggaagatg tatagtttct acttcagctt tgtttatgtt 1020
tcctgtgaag aacatctgag tttttatatt tacaaggatg aaaagtttat gtgatatgct 1080
cagcagtagt tttgcaataa tacctgctat ctcagatcca aagatatatt ttccttctgt 1140
gattatttta cattaagca aggtaaatca tattaatat gttctatgag ctataaccca 1200
ggataactaa tttcatcttg gtcacaaagg gatgcacaga agagatacca gcaaaaccag 1260
ttagtagtac atgaactaat gtcattcaag acctgcgtat aaccaagaa ttcattaaag 1320
agaaaacttt tttgccattt gccttgkttt tttttcta atgtgttagaa 1380
atatttgtaa taattttcat gtaatgkta ccctctgtca tattggataa aaacatcttt 1440
attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcgccg cgc 1493
```

<210> 320

<211> 609

<212> DNA

<213> Homo sapiens

<400> 320

```
ggcacgagtg gcttctgacc ctttcttccg ccactaccgc cagctcaatg agaagctagt 60
gcagctcatc gaagactata gccttgcttc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtcctgc aggtgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
tccacactgg gcatccagga gaagtacctg gcaccctcga accagtcagt ggagcaggaa 300
gccatgcagc tgtagcaaca aggtggaccc tggagagcag gatgcataat ccagcactgg 360
ggaaagtgga ggctcctgat gcaggctgca gacccaagag caagtccctc cagccagagc 420
tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaaag cagaacaccc cccatactgt cagtgggtgc cgtgagctct ggccctgcc 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct 609
```

<210> 321

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 321

```
tagtgatcc cccgggctgc aggaattcgg cacgagcaga gcttcgctct tgetgctccc 60
ctgaggtgaa ctgaagccag cagccccgca tcatgtcaaa gctcggccgg gccgccccgg 120
gcctcaggaa gcccgaggtc ggcgggtgtra tccgggcgat cgtgcgggca ggccctggcca 180
tgccccggcc cccactaggc ccagtgtctg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaaggagg cattcctctg cctaccaaga 300
ttttagtgaa gcctgacagg acatttgaaa ttaagattgg acagcccact gtttcctact 360
```



```

tcctgaaggc agcagctggg attgaaaagg gggcccgga aacagggaaa gaggtggcag 420
gcctggtgac cttgaagcat gtgtatgaga ttgcccgnat caaagctcag gatgaggcat 480
ttgcctgcag gatgtacccc tg 502

```

<210> 322

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<400> 322

```

gggcatccag agtacgggtc gagcccgggc catggagccc ccctggggag gggcaccag 60
ggagcctggg cgcccggggc tccgccgga cccatcggg tagaccacag aagctccggg 120
acccttccgg cacctctgga cagcccagga tgctgttggc caccctcctc ctccctcctc 180
ttggaggcgc tctggcccat ccagaccgga ttatttttcc aaatcatgct tgtgaggacc 240
cccagcagt gctcttagaa gtgcagggca ccttacagag gccctgggtc cgggacagcc 300
gcacctcccc tgccaactgc acctggctca tcctgggcag caaggaacag actgtcacca 360
tcagggtcca gaagctacac ctggcctgtg gctcagagcg cttacccta cgctcccctc 420
tccagccact gatctccctg tgtgaggcac ctcccagccc tctgcagctg cccgggggca 480
acgtcaccat cacttacagc tatgtgagg ccagagcacc catgggcag ggcttctgc 540
tctctacag ccaagattgg ctgatgtgcc tgcaggaaga gtttcagtgc ctgaaccacc 600
gctgtgtatc tgctgtccag cgctgtgatg ggggtgatgc ctgtggcgat ggctctgatg 660
aagcagggtt cagctcagac ccctccctg gcctgacccc aagaccgctc ccctccctgc 720
cttgcaatgt caccttgag gacttctatg gggctctctc ctctcctgga tatacacacc 780
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gccctgggcc ccctgagagc tcccgactac tgcgtagtct caccacttc agcaatggca 960
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gcggcctgct cctggtcate gccctgggct gcacctgcaa gctctatgcc attcgacccc 1560
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caccctcttc ctacgggcag ctcatggccc aggttgccat cccacctgta gaagactttc 1680
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tgatgagacg cctggtacgc cgtctccgcc gctggggctt gctccctcga accaacaccc 1860
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aggcaccccc actgccatc aaggctcccc tcccatctgc tagcacgtct ccagccccc 2040
ctactgtccc tgaagcccca ggccactgc cctcactgcc cctagagcca tcactattgt 2100
ctggagtggt gcaggccctg cgaggccgcc tggtgcccag cctggggccc ccaggaccaa 2160

```

```
cccgagcccc ccctggaccc cacacagcag tcctggccct ggaagatgag gacgatgtgc 2220
tactggtgcc actggtgag ccgggggtgt gggtagctga ggcagaggat gagccactgc 2280
ttacctgagg ggacctgggg gctctactga ggctctccc ctgggggctc tactcatagt 2340
ggcacacact tttagagggt ggtcagcctc cctccacca cttcctccc tgtccctgga 2400
tttcagggac ttggtgggccc tcccgttgac cctatgtagc tgctataaag ttaagtgtcc 2460
ctcaggcagg gagagggtc acagagtctc ctctgtacgt ggccatggcc agacaccca 2520
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taaagttctt agaggatmaw aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 2630
```

<210> 323

<211> 1874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1735)

<223> n equals a,t,g, or c

<400> 323

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tcgacccacg cgtccggccg gggcgccctc cggaagcttt tccaactttc cagaagtttc 60
tcgggagggg cgggaggagg ggaacgccat atatagacct ggagagccgg gagcgaggag 120
agtggaatcg gtccgcggct cgagtgggtc tctagtccgg cgccagccgc ccggcccagc 180
cctcacaggt ccttcgtggt gcataccatc cgctcccag ccatgcgctt cctcctgctt 240
accagcactt gctgcctcct ggccatggcc ctggctgccg aggtgaagaa gccagcggcc 300
ccaggcacag cagagaagct garcccaaaa gcggccacgc tggcagagcg cagtgtctggc 360
ctggccttca gcctgtacca ggccatggcc aaggaccagg cgggtggagaa catcctgctg 420
tcgcctgtgg tgggtggcctc atccctgggg cttgtgtcgc tggggggcaa ggccaccaca 480
gcgtcccagg ccaaggcggt gctgagtga gagcagytgc gtgatgagga ggtgcacgcg 540
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tgcagtccat caatgagtgg gccgcacaga ccaccgatgg caagctgcct gaggtcacca 780
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gggacgagaa gttccaccac aagatggtgg acaaccgagg cttcatgggtg acccgctcgt 900
ataccgttgg ggttacgatg atgcaccgca caggactcta caactactac gacgacgaga 960
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gcgtgttcca cgctaccgcc ttcgagtggg acacagaggg caacccttt gaccaggaca 1320
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tcctggttcg agacacccag accggctccc tgctgttcat tgggcgccctg gtccggccca 1440
agggtgacaa gatgcgagat gagctgtagg gccccaggga tggcaggagg cagcccaagg 1500
ctcctgagac acatgggtgc tatggggggt agctgaggtta ccgaccttg atgtgccatg 1560
```

```

gggtgggggt gggaaaacag agcaggcttc ctggatgtct gagcagatct tcccaggcag 1620
aattgactct gtctggatgt gggcccccag ataccgtgat gctgagcccg gacacscac 1680
attctgrggr ccctgggggc agttggcggt tcttgccctc agcatcctgg gattnaagcc 1740
tgccctcaat cagtgttcat atttatagcc aagtgccttc tcatctgtga gacagaatcg 1800
agctargggg cttcagccca gccctgtgga atggggaccg tcttttcctt accctaccat 1860
cacctcagcc ctaa 1874

```

<210> 324

<211> 2325

<212> DNA

<213> Homo sapiens

<400> 324

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aagaaatgca gatgagtgtg aaacatctgt tctcaattat gttgatctgt gtgcgcagta 60
ctggagcatt taccatttca tgttgagcct caaatgcttg ttttctgggg tccacaaaag 120
acagttttat acattttgag ttgttcataa agtttgtctt gtgatatgcc tggcacttaa 180
agacaaatth ttctggtagt aaaagttcag atttattact atgtcatgaa acacagtaca 240
ttcaaatcaa acggcagttt tctttctaag taaatgattt ccagtcactt aaaagggtggg 300
caagatgaga taaagacatt ttgatacagt aattgttttg gttgggtttt catgtcagtt 360
tatgtttgac taaagctctc ttcatatgca ggtttataaa tttgttaggt ctgttgctcc 420
atgattaaac atgsagtgcc tcctctctga tttaatatc tgcaggtcat tgtaacctgc 480
taggcaaaagt cacaacattg cattaagag gtgatagctt tgctaataac actgttttaa 540
aggacgtaca gttaaaggaa tattaagtgg gagaaagcct acaaggcttt tagaatatta 600
tcagtatctt catttctggt attcagatgt tatgtgataa aacacatttt ttttggtttt 660
cccagataca ctatatattt gttcaagggt aaatctataa aatgtatata ctttattttg 720
tggttttgct atttataaat ttaatgtttt aactgttgct catttatggt ttgttttggg 780
tggtggtggt catctgtata tcaccatggt aatttgtaat ggaagtgcac ttcgtagtgt 840
atattgttac tgacattaaa atactttata gcattgtctc tgagcaaaag ctagtattta 900
attgtacaaa tgaataagca agttacatgt tattgtttgc tcttgacagg gtaggcctct 960
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ccatgcatga catgagatct gcaaacctga ttttagccac cgtatttatt tagtcaaaaa 1080
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cttgtctgtg gtgtgttttt tttcccaact gcagtggaact tatgtgtttt tcatgttttag 2040
aaacaaaaag gtttcatgtg attcatgtgt aagatgcaca gtatttgaca tcctgattat 2100
gtaatcccta ttccatctat ccagtcttac acttatggtt ggcctcaaat ctattgcatt 2160
tatgataatg tattatatct agttgagttt aatatttttt tattagcctg taaataaaga 2220
tggcatcttc tacattaaaa tgatattgat ctcatttttt taaataaaca ttttgtttcc 2280

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256

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2325

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<211> 785

<212> DNA

<213> Homo sapiens

<220>

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<400> 325

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ggagagcccc gagctgctga accctgagcc caggagactg agcccagagt tgaggctact 180
gccctatatg atcactcttg gcgacgccgt gcacaacttc gccgacgggc tggccgtggg 240
cgccgccttc gcgtcctcct ggaagaccgg gctggccacc tcgctggccg tgttctgcca 300
cgagttgcca cagcagctgg gggacttcgc cgccttgctg cagcgggggc tgtccgtgcg 360
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actcgcgggt ggagtcagcg aggagagcga ggcctggatc ctggcagtgg ccaccggcct 480
gttcctctac gtagcactct gcgacatgct cccggcgatg ttgaaagtac gggacccgcg 540
gccctggctc ctcttcctgc tgcacaacgt gggcctgctg ggcggctgga ccgtcctgct 600
gctgctgtcc ctgtacgagg atgacatcac cttctgatac cctgccctag tccccacct 660
ttgacttaag atcccacacc tcacaaacct acagcccaga aaccagaagc ccctatagag 720
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aaaaa                                         785
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<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (244)

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<400> 326

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gacgacagaa gggtagcgct gcgagaagac kacagaaggg tacggctgcg agaagackac 180
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagagggt 240
acgn                                         244
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<210> 327

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 327

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tcccaccctc ccgccccgcg gcagccctag ctccctccac ttggctcccc tggctccgct 180
cgctcggccg ggagctgctc tgtgcttttc tctctgattc tccagcgaca ggaccggcg 240
ccggcactga gcaccgccac catggggaag ggggttggaac gtgataagta tgagcctgca 300
gctgtttcag aacaaggtga taaaaagggc aaaaagggca aaaaagacag ggacatggat 360
gaactgaaga aagaagtttc tatggatgat cataaactta gccttgatga acttcatcgt 420
aaatatggaa cagacttgag ccggggatta acatctgctc gtgcagctga gatcctggcg 480
cgagatggtc ccaacgccct cactccccct cccactactc ctgaatggat caagttttgt 540
cggcagctct ttgggggggt ctcaatgtta ctgtggattg gagcgattct ttgtttcttg 600
gcttatagca tccaagctgc tacagaagag gaacctcaaa acgataatct gtacctgggt 660
gtggtgctat cagccgttgt aatcataact gggtgcttct cctactatca agaagctaaa 720
agttcaaaga tcatggaatc cttcaaaaac atgggtccctc agcaagccct tgtgattcga 780
aatggtgaga aaatgagcat aaatgcggag gaagttgttg ttggggatct ggtggaagta 840
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gcttctgggc tgggaaggag ccagaccccc attgctgcag aaattgaaca ttttatccac 1140
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gagtatcacct ggcttgaggc tgtcatcttc ctcatcggtg tcatcgtagc caatgtgccg 1260
gaagggtttgc tggccactgt caggtctgtc ctgacactta ctgccaaacg catggcaagg 1320
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<211> 505

<212> DNA

<213> Homo sapiens

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aaagagaaac tttttcccag ctgggtgctg tggctcacac ctgtgaatcc cagccctttg 180
gnaggctgna gtgggcagat cgcttgagcc caggagtgtg agatcagcct gggcaacatg 240
gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtggtggtg cgcgcctgtn 300
antcccagct actaggagg ctgaagggtg gnggnttgnt tnagcccagg aggttgaggc 360
tgcattnggc tgggattcaa accatgttac tccntgacca ngtnngncct ntttcaaann 420
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<210> 329

<211> 559

<212> DNA

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<222> (6)

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<400> 329

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ttagttgcac tagccatatt tcaaatactt gatggataca tgtggctagt ggctaacata 180
agggatagca cagatataaa acatttcctc ccaaagtgtc gggattacag gcatgagcca 240
ccgcgcccgg cctatcatat gaattttgag ggaacacaat catgcagtct gtagcagatg 300
gtaaataggct gatatattac acttgttgat gtaanctgga tangtttctt tcttctccaa 360
ggacagcttt ttnaatattt aacantncca ttaatttttc agtttcggg agaattttat 420
aatttataat tgccgactta ngganaancc aattgggcc accattacaa tanattttta 480
attccgntta aaaaatccca ccngnggggg aattccgctt aaaattttat tttccattat 540
tccaatggc ntnaattta 559
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<210> 330

<211> 467

<212> DNA

<213> Homo sapiens

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<400> 330
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ctggncagac accgntgnaa cgggnattat ttcaccctca gagagaggct gateactatg 180
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgcaga ttagagttgc 240

ccatatcgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300
gagtnttaaa tgccttaaaag taattaaaaan ccgggggcaat nccntttttac ggatggtttg 360
ctgggggtttc cgttttttaac caacattttt ntnggggncc gnccacaaat tttgggggtg 420
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<210> 331

<211> 418

<212> DNA

<213> Homo sapiens

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<400> 331
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aatgtngcca ntgtctgtct gcagattggc taccctaactg ttgcatcagt accccattct 180
atcatcaacg ggtacnaacg antcctggcc ttgtctgtgg agacggatta caccttccca 240
cttgctgaan aagtcanggc ttcttggtcg atccatctgc cttngtggct gctgcccngt 300
tggctgctgc caccacaact gtcctgctg ctgctgcnc ccancttaag ttnaaaccca 360
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<212> DNA
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<221> misc feature

<222> (49)

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<222> (379)

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<222> (415)

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<222> (446)

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<220>

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tcgctatcct gacgctggcg aacgccccgt acaagcgagg attttactgc ggggatgact 120
ccatccggta cccctaccgt ccagatacca tcacccacgg gctcatggct ggggtcacca 180
tcacggccac cgctcatcct gtctcgcccg ggggaagccta cctgggtgtac acagaccggc 240
tctattctcg ctccgacttc aacaactacg tggctgctgt atacaagggtg ctggggactt 300
cctgtttggg gctgccgtga gccagtcctt gacagacctg gccaaagtaca tgattgggag 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cgggtcaatgc tcgtnatgtg 420
cagtgagaaa gtttgaggga aacctnttga ttcacgagca gtgtttttta tcggaatntc 480
tttgenn                                         486
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<210> 333

<211> 268

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ttcaactana agtatcanaa tatagcnttc cagaaaaccc cgaancanag tcaactgacta 120
catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatattt cctcattcat 180
taccccaaca ataataggac tccctatcgt aattattntc actatgtttc caagcattga 240
tatncccatc acctaccgcn ctnttcaa 268

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<220>
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<222> (447)

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<220>

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<222> (463)

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<220>

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<222> (489)

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<220>

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<222> (496)

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<400> 334

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taactggcta gaagtgccca acgtggaatg tttctttttt aaaggcggct cttgaagcga 120
cccggaagcg gaagtggaag aaagtctctag tggcttgaga ttaagcctga tcaagatgac 180
aacctcccaa aagcaccgag acttcgtggc agancccatg ggggagaacc agtggggaac 240
ctggctggga ttggtgaant cctgggcaag aaactggaag aaagggtttt gacaaggcta 300
tnttgtcttg gccatttctg gtgctaaaaa anataaaaac tctcccgaa tggtgaaan 360
ctttttgggc caccacaacat cccgaatgtc cgatgtctca aaatgtgcan cctcttttat 420
gtctttggaa tctctncccc ccccccatt tgaccaattg ganccccctt cctcaagaaa 480
atgttgttnc ccccanttcc ggttttgatt tccccac 517
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<211> 297

<212> DNA

<213> Homo sapiens

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<222> (155)

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<222> (156)

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<220>

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<220>
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<400> 335
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ggccgctcta gaactagtgg ggggcccggt acccaattcg ccctatagtg agtcgtatta 120
caattcactg gccgctggtt tacaacgtcg tgacnnggaa aacntnnaat ncttccggct 180
cgtatgttgt gtggaattgt naggcgataa caattcacac aggnancagc tataaccatg 240
attnnnccaa gntcgaaatt aacntnact aaaggggaca aaagtngggg ctccacg 297

<210> 336
<211> 386
<212> DNA
<213> Homo sapiens

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<220>
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<222> (128)
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<220>
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<222> (204)

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<222> (251)

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<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

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<222> (272)

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<220>

<221> misc feature

<222> (275)

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<220>
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277

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<222> (365)

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<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 336

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caaaatgctg ctgggtgttt atgcctactt tatagagcat aagcagcgca acacccttat 120
ctggttgncg acggatggtg atgcccngga actttatgaa aaaccacgt tgagcccgac 180
tattngngat attccgtcgn tgcntggggc tggccccgtg gtatggcaaa aaagcaccgg 240
gttnaacaag ntcaaccatg naagngtttc anctnaatgg gggggncccc gtaacccaat 300
tngncctata agtnnatggg antttaanaa ttcaatnggc cctngntttt aaatggtgng 360
tgntnggcct ttttttttn gtttgt                                     386
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<210> 337

<211> 506

<212> DNA

<213> Homo sapiens

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<220>
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<220>
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<220>
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<222> (472)
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<220>

<221> misc feature

<222> (483)

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<222> (501)

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<400> 337

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caccactatg taccctggca ttgccgaccg aatgcagaag gagatcacgg ccctagcacc 120
cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaataactct gtctggatcg 180
gtggctccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacggtgaag cggggccttc cattgtccac cgcaaagtct ttcttaaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagtt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattggtt aaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
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<210> 338

<211> 623

<212> DNA

<213> Homo sapiens

<220>

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<222> (441)

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<222> (508)

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<220>

<221> misc feature

<222> (509)

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<222> (513)

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<222> (597)

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<222> (599)

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<220>

<221> misc feature

<222> (612)

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<400> 338

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aagaaggagc tgtctgacat cgctcaccgc atcgtggcac ctggcaaggg catcctggct 120
gcagatgagt ccactgggag cattgccaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcattgggg gtgtcatcct ctcccatgag aactctacc agaaggcgga tgatgggcgt 300
cccttcccc aagttatcaa atccaagggc ggtgttgttg gcatcaaggt agacaagggc 360
gtggtcccc tggcagggac aaatggcgag actaccacc aagggttgga tgggctgtct 420
gagcgtgtg cccagtacaa ngaaggacgg agctgacttc ggccaagtgg cgttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcacaa tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcanagaa tgcattgggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa 623
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<210> 339

<211> 344

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (157)

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<220>
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<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

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ttttttatat ttcaactaaa agtatcanaa tatagctttc cagaaaaccc cgaaccaaag 120
tacttgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctatgt 180
tcctcattca ttaccccaac aataataggn ctccctatcg taattattat cactatgttt 240
ccaagcatta tattcccatc acctaccgga ctaatcaata atcgactcat ctccattnca 300
acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

<210> 340
<211> 345
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<220>
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<220>
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<221> misc feature
<222> (343)
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<220>
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<400> 340
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ggaattcccg ggtcgaccca cgcgtccngn aggaggggac agctgcgggc gcggggaggg 120
ggcgcccgngc cgcgnggngc catggnggac agnagagccg ggagtcggag annccgggcc 180
gcagcccag atgtcgccgc catggcttcg ccgcagctct gccgcgcgct ggtgtcggcg 240
caatgggtgg cggaagcgct gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300
acgcctcctg gtnacctggc cggaagctgg ggggcgcgna cgncn 345

<210> 341
<211> 170
<212> DNA
<213> Homo sapiens

<220>
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<222> (20)
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<220>
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<223> n equals a,t,g, or c

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<222> (43)

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<222> (163)

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<222> (164)

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<222> (170)

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<400> 341

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tccaagctta cttggacatg catgcnacgt catagctctt ctatagtgtc acctaaattc 120
aattcactgg ccgtcgtttt acaacgtcgt gactgggaan atnntaaaaan 170

<210> 342

<211> 387

<212> DNA

<213> Homo sapiens

<220>

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<222> (238)

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<220>

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<222> (273)

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<220>
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<220>
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<400> 342
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acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180
actgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaactggc ggactactta 300
ctctagcttc cgggaacaa tttatagnct tgggtgnggc gggtaaagtt ncaaggccca 360
tttttnggtt tggccttccg gttngtt 387

<210> 343
<211> 186
<212> DNA
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<223> n equals a,t,g, or c

<220>
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<220>
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<400> 343
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tatntcggac ncatctggtg acttccgcaa gctgatggtt gccctggcna aaggttaaaa 120
aacagaagaa tgggccgtcc ttgaatatga anngaatan ccacatgccc ggatttcctt 180
gancccc 186

<210> 344
<211> 611
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaaggga acaaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagctg cggtgggctc 120
cggaagccg ttcgggctgg ggctgtcggc cgcggggcgg aggcactcgc gcgggggatg 180
gccactgcg tgaccttggg tcagctgtcc atttcctgtg accatctcat tgacaaggac 240
atcggtcca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gtgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgttcccta 480
ggacagattg tgtccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tggaggtaga g                                     611
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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

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tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaat aaagtactat aaaggattgg gtactagtag agctaaagaa gcaaagggaat 120
atattgctga tatggaaagg catcgcacat tgtttagata tgctggctcct gaagatgatg 180
```

```

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggtaacaa 240
atattatgga agaccggaga cagcgtagct acatggctta ccagaggant gattcnctct 300
caactcagac atgaaagatc tataccacnc ntgttgatgg cntt 344

```

```

<210> 346
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

```

```

<400> 346
ggaaaaagccc aaggaaaaag caaagaatag caaaaaaaag ggggccaaga aggaagtgg 60
tgggattgggt cttctttttt cttcagttag ttttttcccc aacaggttct gatggtcctt 120
tggctaccag caaaccagtc cctgcagaaa agtcagggtt tccagtgggt cctgagaacg 180
gagtagaact ttccaaagag gagctgatcc gcaggaagcg cgaggagttc attcagaagc 240
atgggaggggg tatggagaag tccaacaagt ccacgaagtc agatgctcca aaggagaagg 300
gcaaaaaaagc accccgggtg tgggaactgg gtggctgtgc taacaaagaa atgttgatt 360
acagtacttc caccaccaat ggaaccctg angttgctt tgtctgagga cattaacctt 420
gattccaagg gactgggtct ggggggcact tnnngatctg gactgcacac tntgatgacn 480
aagggtctgt taaantttcc aaacta 506

```

```

<210> 347

```

289

<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 347
cggaagggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120
tacttttaaat accattactg cagccacacg ccttgagggt gaagtgtcct gcttagtagc 180
tggaaccaaaa tgtgacaagg tggcacaaga tctctgtaaa gtagcaggca tagcaaaaagt 240
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300
tttggaactcagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360
aaagaacctt ttgccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420
tgcaatcaag tcacctgaca catt 444

<210> 348
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 348

ggcagagaag cagaagcgnc tcagttagag tccagcaaaa ggtttgccaa anagtttatg 60
gacagacatg gaatcccaac cgcacaatgg gaaggctttc accaaacctg aaaggaagcc 120
tgcagcttca ttttgagtgc agacttccct gctttggttg tgaaaggcca gtggtcttgc 180
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcttgcaag ctgtacaaga 240
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358

<210> 349

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 349
ggcgctttgc tctgtccacc aagattcctg acaccaaagg ctgcttgag tgctgtgtgg 60
tgcggaaccc ctacacgggt gccaccttcc tgctggccgc cctgcccacc agcctgctcc 120
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240
gttttttttg ggccgaaggg cctaaagggc ccggttgccg gttcctgttc caanncctgc 300
ncctgggagg ttggcnttaa g 321

<210> 350
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (658)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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gggtcacgctg acccagtgtc cggaagct ggtgcagctc atcctgcacg aatacaagat 60
cttcaatgca gaagtgtttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaac acccaacagt gtgggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccggaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttccgccc acctgtcgt ctcccttggg aggtggtccc actgggacac acaaacaccc 540
aaacagaaaa atacaaatac acgtacccca agaaggggtc cctcaagtct ctgctattta 600
cagaagtttc ttcagtangc agacaaaaa tgtgttgggc aaaagggctc ggntggangc 660
atthccata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac 742

```

<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 351

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aatcaggcgg gactgacggc agatcgatatg ctggctcctgt ccagagccgg gcaggcggca 60
gggctgacgt ttaaccagac cagcgagtca ctcagcgcac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtgtggcgc gtttctnctc tgcacccggc 180
gtggagggtgg acaaggctcg tgaagccttc gagggggggc cgtacccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272
```

<210> 352

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 352

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gcagacgtcc agagcagagt cagccagcat gaccgagcgc cgcgtcccct tctcgctcct 60
gcggggcccc agctgggacc cttccgcga ctggtaccgc catagccgcc tcttcgacca 120
```

ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180
gccaggctac gtgcgcccc tgccccccgc cgcacgcaga gccccgcagt ggccgngccc 240
gctacagncg nncgct 256

<210> 353
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 353
ggttcccttc cacgctgtgg aagcattgta ctttnggtct tcatgataaa tctngctgct 60

295

gctcactcgt tgggtccgtg ccacctttaa aanctgtaac actcaccgcg aaggtctgca 120
acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatctt taagaaccgt aatactcacc gcaagggctt gcaacttcat tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaag cagtgagact attgccaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggtc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggncctct ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttggccc cc 592

<210> 354

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<400> 354

cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tccccgggc tgcaggaatt cggcacgagt cgtctcaggc tcgtagtctg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ccttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttcccgcctg gcgcattaca acaagcgctc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagtgggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaattt 539

<210> 355

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<400> 355
gcttcgctca cctgcccaag agtacctttg tgttggatga atttaagcgc aagtactcca 60
atgaggacac actctctgtg gcactgccat atttctggga gcactttgat aaggacggct 120
ggtcctctgtg gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcagagct 180
gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240
gtgtcatcct ttttggaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300
gccaggagct tgcctttccg ctgagtcag attggcaagt ggactacgaa gtcatacaca 360
tggcggaaac tggatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420
nngngagggg gcctt 435

<210> 356
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (497)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (499)
 <223> n equals a,t,g, or c

<400> 356
 aattcggcac gagagggagt ntgagcaagg ggtgtacacc tgcacagcac agggcatttg 60
 gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttgtg ggaagcccgt 120
 gaaccccgtg gaacagaggc agcgcatcat cggagggcaa aaagccangg ggatagtggg 180
 ggcgtttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcgtgtnc 240
 ctngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300
 tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360
 tccnaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420
 acccnnncagn gtctctnttn anattncctnc tngcacnna ncccacaacc ccccccncnc 480
 ccccccncnc ccccccncnc cc 502

<210> 357
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (236)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (262)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (293)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (300)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
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<400> 357

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aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtttg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataagc agnggaacan 300
ccttatttgg tttccncagg atggtggatg cccgagaant ttttggaana cccacgttgn 360
gncgattatt tcgggganatt ttccggngnt gttgggggtt gncgccntgg gttttggnaa 420
aaagancggg gtaaaaggtt                                440
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<210> 358

<211> 234

<212> DNA

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taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatttttngc agatctgaag agctattgtn atga 234

<210> 359

<211> 668

<212> DNA

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 aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgaccacag cgtccgggggt 120
 gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180
 tacagggaag atggaagtgg tgggtgcatgg acgactgacc acaatcaact gtgagggaagg 240
 agataaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagatt 300
 gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360
 actcaatcct gattcaagta tggaaacttc accagacttt ttcttctaaa atctggatgt 420
 cattgacgat aatgtttatg gagataaggt ctaagtgcct aaaaaaatgt acatataacct 480
 ggttgaaata caacactata catacacacc ancatatata ctagcttggt aatcctatgg 540
 aaatggggtat tntggagnnc ttttttaatt tttcatagnt tttttttnat aanaatggca 600
 tatttttggat ctacaacttc tatgatttga aaaaataacct taacccttat cttttttgng 660
 aaaaaana 668

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 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 360
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cgctaaaaat gcggatatca gtggcagtgat gaatgcgaac tccgggacgc tcagtaaatgt 120
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180
cattgtaaag gcggcgagcg cggcttttcc gcgccagggtg gaaagcagtg tggactggcc 240
gtcaggtacc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360
gtgttatctg aaagtactga tgaacgggtgc ggtgatttat g 401

<210> 361
<211> 273
<212> DNA
<213> Homo sapiens

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<222> (236)
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tgagccgtaa ttatcatctg cgcgggcgta ttctgcagggt gccgtcgaac tataaccgcg 120
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180
tggcctggng tctgtgggat atgctgaccc atccgcgcta cggcatgggg aaacgncttg 240
gtgcggcgga tgtggataaa tgggcgctgt atg 273

<210> 362
<211> 248
<212> DNA
<213> Homo sapiens

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<400> 362
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cgaatcccat ctctgcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120
cagactggag gagttttcga aagantggaa ggatgccagt nataagtga atgccatgtg 180
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

<210> 363

<211> 149

<212> DNA

<213> Homo sapiens

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<222> (144)

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<222> (145)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (147)

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<400> 363

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atctggaggc gacggggctg tatcagggtgc cgttgtcagc ggcacagccg ggcgatgtgc 120

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<210> 364

<211> 352

<212> DNA

<213> Homo sapiens

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<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
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tgctctgggt ctcacatgacg cagatgcagc gangaggctc aatgttacac cactggcaag 120
aatagtagca tttgctgacg ctgctgtaga acctattgat tttccaattg ctctgtata 180
tgctgcatct atggtnctta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240
agtaaatgga agcctttagt ctggttgtag tagcaaacat taaaatgtt ggagattgga 300
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365
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<213> Homo sapiens

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<222> (42)
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ggcttgtgcc gctgctggan tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggnacatg ggaccaaagc cggaacctcc tgetcaacgg 180
gaagtcctan cccaccaaag tgcgcctgat ctggggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272
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<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (23)

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<220>

<221> misc feature

<222> (192)

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<220>

<221> misc feature

<222> (208)

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<400> 366

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cccgggtcga cccacgcgtc cgcttctctg cctagaaggg ataattattat cactcttcgt 120
tataataaca atcaccatct taattaacca ccttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnnn actggggcctt atccctttta gttatnatct 240
caantacata cgga 254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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tgcagagaac gttgaatgcc tggaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaaccatgag caaatgatga ttgatggctt atcagagcgt ggaaacgtta atcactggct 180
gctta 185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

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tcaagggtctt ccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180
ctgccgctgc acnaccggcc agccagggac tgcgcctgca ggaacccctg gngccccacc 240
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccccctcc 300
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360
tgctgagggt tcccggctgg actcactagt ggcanaacna ctcnnggctgg aagtngtagc 420
tctgaggggac tcngccccag tggtggccgg gacctgat 458

<210> 369
<211> 288
<212> DNA
<213> Homo sapiens

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<400> 369

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ccccgcctgc ngccctgttt gcaactcggcc tgtagtgcct gcntagggcc cgcngccccg 120
ccgccgccaa cagctcgggg gacggcgggg cggcgggcga cggcaccgtg gtggactgtc 180
ccgtgtgcaa gcaacagtgc ttctccaaag acatcgtgga gaatnatttc atgcgtgana 240
gtggcagcaa ggctgccacc gacgcccagg atgcgaacca gtgctgca 288
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<210> 370

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<212> DNA

<213> Homo sapiens

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<220>
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<400> 370
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ntcctccgcc gccgcggact ccggcagctt tatcgccaga ntccctgaac tctcgcttcc 120
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagaggc 240
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<210> 371
<211> 477
<212> DNA
<213> Homo sapiens

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<220>
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tggttccaag cataaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120
tggccagtc tggcaagggt taacaaaaga aagggcaaag cttaattggc ttagtggtcg 180
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300
ggaatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaagggt 360
tttcataat ttgngaggaa ttccccgagt ttgttagcnc cttaaaggcn gttatgctcg 420
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<210> 372
<211> 443
<212> DNA
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<222> (351)
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<220>
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<222> (373)
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<220>
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<220>
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<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 372

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agaaganatc cttnaccctt gtaggaatgt ttttgaaact aaatttnatg aacgtnaaat 120
ttncagtggt ttattatgaa ctctcttgtc gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgcaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgtgg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncagttg gtaggtgtgg aacttggggg tgaattnatt ncttaaccga 420
attttnccgn ttccttaacc gag 443
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<210> 373

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

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<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 373

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cggatccgca ggcgcacgtn gcgatgttgt cctctacagc catgtattcg gctcctggca 60
gagacttggg gatggaaccg cacagagccg cgggcccttt gcagctgcga ttttcgccct 120
acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aattaacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga ctaaagatgt ataagcattc caataataag gccatgacta 360
cgggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
atgtttacaa catcatcggt ggacttgatg aagaaggaaa gggg 464
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<210> 374

<211> 369

<212> DNA

<213> Homo sapiens

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<220>
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<222> (221)
<223> n equals a,t,g, or c

<220>
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<222> (332)
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<220>
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<222> (357)
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<220>
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<222> (360)
<223> n equals a,t,g, or c

<220>
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<222> (363)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<400> 374
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agagccgcgg gccctttgca gctgcgattt tcgccctacg ttttcaacgg aggtactata 120
ctggcaattg ctggagaaga ttttgcaatt gttgcttctg atactcgatt gagtgaagg 180
ttttcaattc atacgcggga tagcccaaaa tggtgncnna ntaacagaca aaacagtcac 240
tggtatgcagc gggtttcatg gagactgtct tacgctgaca aagattattg aagcaagact 300
aaagatgtat aagcattcca ataataaggc cntgactacg gggggcaatg ctggcangcn 360
gtntctacan 369

<210> 375

322

<211> 313
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (32)
 <223> n equals a,t,g, or c

<220>
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 <222> (249)
 <223> n equals a,t,g, or c

<220>
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 <222> (259)
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<220>
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 <222> (293)
 <223> n equals a,t,g, or c

<220>
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 <222> (308)
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<400> 375
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 gtacacaacc gcccaactgc tggcggcaaa tgagcagaaa tttaagttag atccgctgtt 120
 tctgcgtctc tttttccgtg agagctatcc cttcaccacg gaggaaagtc tatctctcac 180
 aaattccggg actggtaaac atggcgctgt acgtttcgcc gattgtttcc ggtgaagggt 240
 atcccgttnc cctggcggtt tccacctntg aatttaaggc cgggataatg tcnaagcccc 300
 aagcatgnaa gtg 313

<210> 376
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 376
 cgggttccgg tgaccacgaa ggcggcaaa ggcagcgaat ggaggagggtg cctcacgact 60
 gtccaggggc cgacagcgcc caggcgggca gaggggcttc atgtcagggg tgccccaacc 120
 agcggctgtg cgcttctgga gcgggggcca ctccggacac ggctatagag gaaatcaaag 180

agaaaatgaa gactgtaaaa cacaaaatct tggattgtc tgggaaaggc ggtgttggga 240
aaagcacatt cagcgccac cttgccatg gcctagcaga ggatgaaaac acacagattg 300
ctcttctaga catcgatata tgtgggccat cgattcccaa gataatggga ttggaaggag 360
agcaggttca ccaga 375

<210> 377

<211> 434

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

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<222> (32)

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<222> (33)

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<221> misc feature

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<220>
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<222> (118)
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<220>
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<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (235)
<223> n equals a,t,g, or c

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<222> (243)
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<222> (263)
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<220>
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<222> (264)
<223> n equals a,t,g, or c

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<220>

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<222> (279)

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<222> (301)

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<220>

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<222> (330)

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<220>

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<222> (337)

<223> n equals a,t,g, or c

<220>

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<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 377

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gacngagana gtncagaagc tgtgcccagg ggggcagntc ccattcctgc tntatngnac 120
tgaagtgcac acagacacca acaagnttgc ngaatttctg nangcagtgc tgtgccctcc 180
caggtagccc aanctggcag ctctgaaccc tnantccaac acagctgngc tgganatatt 240
tgncaaattn tctgcctaca tnnnnanttc aaaccacagna ctcaatgaca atctggagaa 300
nggactcctg aaagccctgn acgttttagn caattantta acatcccccc nctcagaaga 360
agtggatgan accagtgtg nagtgaagg gtctctcaga agaagtttnt ggatagcacg 420
agctcaccct gggg                                     434
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<210> 378

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

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<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

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<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
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<220>
<221> misc feature
<222> (492)
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<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 378
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tatgcgactt accgcagcaa aaataaaggg aaagataagc gctcaataaa cctgtctgtt 120
ttccttaatt ctntgctggc tgataatcat cacctgcagg ttggctccaa ttatttgtat 180
attcataaaa tcgatggaaa aacttttctc ttaccacaaa caaatgacaa gagtctggtt 240
cagaagataa atcgctctaa agcttcagtt gaagatatta agaacagcct cgtngatgac 300
ggaatcattg ggattcccat cttttttgtt tgttgaaggc gacaccattg gtttttgcca 360
gaactgnntt tcgggncggc cacatncgnt tttgacaggt ttttttaatc ggggaaggga 420
ntgtccttaa ggcgtggggn gcngttcagt tggggccctg ttgggggggac cnccaaggng 480
gtggttatgg cnnggntttc atnggc 506

329

<210> 379
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 379
gacganacna accctcacta aaggggaacaa aagctggagc tccaccgcgg tgcggccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gaggccatcc agactgagga 120
agacccgga acttaggggc cacgtgagcc acggccacgg ccgcataggc aagcaccgga 180
agcaccgccg cggccgcggt aatgctggtg gtctgcatca ccaccggatc aacttcgaca 240
aataccaccc aggctacttt gggaaagttg gtatgaagca ttaccactta aagaggaacc 300
agagcttctg cccaactgtc aaccttgaca aattgtggac tttggtcagt gaacagacac 360
gggtgaatgc tgctaaaaac aagactgggg ctgctcccat cattgatgtg gtgcgatcgg 420
gctactataa agttctggga aagggaaagc tcccaaagca gcctgtcatc gtgaaggcca 480
aattcttcag cagaagagct gaggagaaga ttaagagtgt tggggggggc tgtgtcctgg 540
tggcttgaag 550

<210> 380
<211> 573
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<400> 380

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aagncnagan agccaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcg caaagaaggg 120
tggcgagaag aaaaagggcc gttctgccat caacgaaggn taaccgaga atacaccatc 180
aacattcaca agcgcattcca tggagtgggc ttcaagaagc gtgcacctcg ggcactcaaa 240
gagattcgga aatttgccat gaaggagatg ggaactccag atgtgcgcat tgacaccagg 300
ctcaacaaag ctgtctgggc caaaggaata aggaatgtgc cataccgaat ccgtgtgcgg 360
ctgtccagaa aacgtaatga ggatgaagat tcaccaaata agctatatac tttggttacc 420
tatgtacctg ttaccacttt caaaatttct gtgctaaaca gtgttacagt cgccaagagc 480
ccataaaggg agccctcctg gaagtggatg aggccttggg tctcggctct tcattgcttc 540
ctgagctgca gcagatgcct ttacaaccaa gct 573
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<210> 381

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 381

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gcagnacnaa ccctcactaa agggaacaaa agctggagct ccaccgcggt gcggccgctc 60
tagaactagt ggatcccccg ggctgcagga attcggcacg aggcggcggtt ggcggcttgt 120
gcagcaatgg ccaagatcaa ggctcgagat cttcgcggga agaagaagga ggagctgctg 180
aaacagctgg acgacctgaa ggtggagctg tcccagctgc gcgtcgccaa agtgacaggc 240
ggtgcggcct ccaagctctc taagatccga gtcgtccgga aatccattgc ccgtgttctc 300
acagttatta accagactca gaaagaaaac ctcaggaaat tctacaaggg caagaagtac 360
aagcccctgg acctgcggcc taagaagaca cgtgccatgc gccgccgggt caacaagcac 420
gaggagaacc tgaagaccaa gaagcagcag cggaaggagc ggctgtacct gctgcggaag 480
tacgcggtca aggcctgagg ggcgcattgt caataaagca cagtggctga g 531
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<210> 382

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (5)
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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (271)

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<220>

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<222> (293)

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<220>

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<400> 382

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atgaatcctg tggagcatcc ttttggaggt ggcaaccacc agcacatcgg caagccctcc 120
accatccgca gagatgcccc tgctggccgc aaagtgggtc tcattgctgc nngcnggant 180
ggangtctcn ggggaaccaa gantgtgcag gagaaagaga actagtgcctg agggcctcaa 240
taaagtttgt gtttatgcc aaaaaaaaaa naaaaaaaaa aaaaaaaaaa annaaagagn 300

<210> 383

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 383
atgacgccgg tgcagcgggg gggcccgggg gcctgngtg ccctgggatg gggaaccgcg 60
gtggcttccg cgaggtttcg gcagtggcat ccggggcccg ggtcgcggcc gtggacgggg 120
ccggggccga ggccgcggac tcgcgnaggc aaggccgagg ataaggagt gatgccgctc 180
accaagtttg gccgcttggt caaggacatg aagatcaagt ccctggagga gatctatctc 240
ttctccctgc ccattaagga atcagagatc attgattctt cctgggggct ctctcaagga 300
tgagttttga agatatgcca tgcagaagca gacctgccg gccacgcacc agttcaagca 360
ttnttgnaac gggattaaat gccactcgtt tggtttaatg nccnagagt gcacncatcc 420
tgggcaaaac tggcaaattt caagtccttn naagtatggg gaaaatggaa cccaa 475

<210> 384
<211> 127
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
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<223> n equals a,t,g, or c

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<222> (31)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

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<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

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<222> (124)

<223> n equals a,t,g, or c

<400> 384

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angagattaa ncagagacac aggcaattgt atgtcagcag ctngatttaa cccacctaaa 120
aggngcgg                                     127
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<210> 385

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

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<220>

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<222> (151)

<223> n equals a,t,g, or c

<220>

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<222> (187)

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<223> n equals a,t,g, or c

<220>
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<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 385
ggcacgaggg atgtgcgacg tgtgcctggn gtagccccga ctcttgtagc gtcggcatct 60
gagaccagtg agaaacgccc cttcatgtgt gcttaccag gctgcaataa gagatatttt 120
aagctgtccc acttacagat gcacagcagg naagcacact ggtgagaaac cataccagtg 180
tgacttnaag gactgtgaac gangttttct cgttcagacc agctcaaaaag ncaccaaagg 240
aggacataca ggtgtgaacc attnccagtg taaaattggt cagcgaaatt ctcccgttcc 300
gaccaacnga ngaccna 317

<210> 386
<211> 433
<212> DNA
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<220>
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<220>
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<222> (311)
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<220>
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<220>
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<220>
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<222> (407)
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<220>
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<222> (427)
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tttcaaaagc tatttaggtg acactataga aggtagcctg cagggtaccg gtccggaaat 60
tcccgggtcg acccacgcgt ccgccgagag ccttagccga cggaaactgg aacttggaac 120
cggcagcgcc atgagactcc tccccgcgtt gctgctgctt ctcttactcg tgttccctgc 180
cactgtcttg ttccgaggcg gccccagagg cttgttagca gtggcacaag atcttacaga 240
ggatgaagaa acagtagaag attccataat tgaggatgaa gatgatgaag ccgangtaga 300
agaagatgaa nccacagatt ttgtagaaga taaagaggaa gaagatgtgt ctggtgaanc 360
tgaaacttta ccgagtgcag atacnactat actgttttta aaggngnaga ttttccgcca 420
ataacantgt gaa 433

<210> 387
<211> 407
<212> DNA
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<222> (359)

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<222> (376)

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<220>

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<222> (407)

<223> n equals a,t,g, or c

<400> 387

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ggtgacgggt ctgtacgacg tgcaggcttt caagtttggg gacttcgtgc tgaagagcgg 120
gctttcctcc cccatctaca tcgatctgcg gggcatcgtg tctcgaccgc gtcttctgag 180
tcagggttgc gatattttat tccaaactgc ccaaaatgca ggcatcagtt ttgacaccgt 240
gtgtggagtg ccttatacag ctttgccatt ggctacagtt atctgttcaa ccaatcaaatt 300
tccaatgctt attanaagga aagaaacaaa ggattatgga actaagcgtc ttgtanaang 360
aatattaatc canganaaac tgtttaatca ttgaaatgtt gtcccan 407
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<210> 388

<211> 244

<212> DNA

<213> Homo sapiens

<220>

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<222> (215)

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<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<400> 388

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tcaggcggcg catttttatt gctgtgttgc gctgtaattc ttctatttct gatgctgaat 120
caatgatgtc tgccatcttt cattaatccc tgaactgttg gttaatacgc ttgaggggtga 180
atgcgaataa taaaaaagga gcctgtagct ccctnatgat nttgcttttc atgttcacgc 240
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ttcc

244

<210> 389

<211> 239

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (128)

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<222> (163)

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<220>

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<222> (185)

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<222> (196)

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<222> (202)

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<220>

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<222> (205)

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<400> 389

nggactggcg tcagacgtcg nattccggcg cccacggctcg gcttaaaccg tggtncaatc 60
ctgncgcccg ncgtgatgcc aggggaagaca gggcgacctg gaagtccaac tacttnctta 120
agatcatnca acgtattggg atgattatcc taaaatgggt tcnattgggt ggtagcgagt 180
acganatggt ggggcntcct anagntagta tggcgagcta ggtccccggc taatgttcc 239

<210> 390

<211> 382

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (54)

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<222> (69)

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<222> (102)

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<220>
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<222> (219)
<223> n equals a,t,g, or c

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<222> (221)
<223> n equals a,t,g, or c

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<222> (235)
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<220>
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<220>
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<222> (346)
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<220>
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<222> (374)
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<400> 390
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cgcgctgcnc gcacactgag gccgcccggg acaaagcccg gnntcggngc gacctttggt 120
cccggnctca gtgagcgagc gagcgcgagc agagggagtg gccaaacttna tcactagggg 180
ttccttgtag tnaatgatta acccgccatg ctacttngnc nacgtagcca tgggntacca 240
agctcgagct ctctagactc gacgcgcgta atacgactca ctatagggcg aatttgagct 300
ccaccgcggt tgccggcgcgt ctactagagt cgacctcatg gnttnncccc gaaaccgcgn 360
aacaccgcgt gacncgcct ta 382

<210> 391
<211> 375
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature

<222> (104)
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<220>
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<220>
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<220>
<221> misc feature
<222> (146)
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<220>
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<220>
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<222> (223)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (279)

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<220>

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<222> (299)

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<220>

<221> misc feature

<222> (351)

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<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 391

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cgggtgcagn tgccaggggtg gcctgagcga tctacggatg ggcngtatgg agtggangag 120
acgagatgcg ggtgttanag cagggnctga ccggagtgn acacatgagt gtcaggtgca 180
ggtagtccga gtcggcgaca tgagcctnga gtagagtcac canticgatga gatctggagg 240
caactggcga gcaagaccgt ntggtgcant gtcantcang ctggttcagg tgagagcant 300
gcactcgtcg agtggcgaga cagatcaatc tctgttagcg ggtggagggt ncactcgcgc 360
tgtggnggtn cactg 375
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<210> 392

<211> 121

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (9)

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<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>
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<220>
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<222> (113)
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atcgtgnttc ctgtccattg gactgtaagg tttatgtagg catcttgga acnatggan 120
a 121

<210> 393
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 393
ggcagagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaanncccn gnggggggcc ccc 83

<210> 394
<211> 218
<212> DNA
<213> Homo sapiens

<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<400> 394
gtcggcgag aangcgcccc gcacccccgc caggcgcatg tctgcacctc cgcttgccaa 60
aggncctcgg tcagcgactg gatgctcgcc atcaaggtcc agtggaagtt cttcaagagg 120
aaaggcgccc ccgcccagg cttccgcgcc cagcgctcgc cacgctcagt gcccgtttta 180
ccaataaact gagcgacccc aaaaaaaaaa aaaaaaag 218

<210> 395
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (13)
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<220>
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<222> (83)
<223> n equals a,t,g, or c

<400> 395
aattcggcac ngnaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

346

aaaaaaaaaa aaaaaaaaaa aan

83

<210> 396

<211> 70

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 396

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aaaaaaaaana 70

<210> 397

<211> 140

<212> DNA

<213> Homo sapiens

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<222> (74)

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<220>

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<222> (93)

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<220>

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<222> (113)

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<220>

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<222> (114)

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<220>
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aatttgacca gagaacaaga ataaccggc ctcagcgccg ggttttcttn gcctcangat 60
cgccccaaa acanataacc aattgtattt atngaaaaat aaatagatac aannnactaa 120
acatagcaat tcagatctnt 140

<210> 398
<211> 157
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (65)
<223> n equals a,t,g, or c

<220>
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<222> (121)
<223> n equals a,t,g, or c

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<222> (122)
<223> n equals a,t,g, or c

<220>
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<222> (123)
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<220>
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<222> (126)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 398
aattcggcan agctcaagca gacggggctc aaggggggta catttaataa aaggatgaag 60
atggnaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
nnnccngggg gggnccccc ccccccttn cccctt 157

<210> 399
<211> 358
<212> DNA
<213> Homo sapiens

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<222> (84)
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<220>
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<222> (204)
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<220>
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<222> (308)

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<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 399

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gcaagcgcca tatgagcctg gcgncgcaa tagcgaatcc tgttggtggc tttttggcct 120
attcccgccc ctcagtcttg ccgggatggc accgcccgc taggacttcc agggttgggc 180
tgagtgggag ttcgactgct gggncctngta attctcgctt tgggggctgc tccttcagg 240
ctggggacac actggggccc gttgttcggt ctcccgctc cgcacatctt gtctggaact 300
tncgncctngc agtttccata ggagttggag nctgtgcggc ntaattttgg tggaaaaa 358
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<210> 400

<211> 399

<212> DNA

<213> Homo sapiens

<220>

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<222> (46)

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<220>
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<222> (171)
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<220>
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<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
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<220>
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<222> (218)
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<220>
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<220>
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<222> (255)
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<220>
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<222> (279)
<223> n equals a,t,g, or c

<220>
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<222> (283)
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<220>
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<220>
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<222> (349)

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<220>

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<222> (364)

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<220>

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<222> (382)

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<400> 400

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aaaacccaan tcagagtatc canaaatcca agccagggtca aaaccaaacc gaaantntca 120
agcaatccaa atcaagtcaa aaacaaaaac caaagtgccg gtacaggcnt nccgtgggtg 180
atcaggccac cttccactc aaatggagtg ggnaantncc aaagactagt nttaccaant 240
ttcanatntc cggantccaa gngcctgtnc cttcccagng ttnagccgct gnattgatcc 300
tctgtggggg cctgcnaaac gccantctgg cgagggtgtc cactggggna attgcctacc 360
cggnagtgtc ctcaggttct gngtcctca agctggcca 399
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<210> 401

<211> 189

<212> DNA

<213> Homo sapiens

<220>

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<222> (162)

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<220>

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<222> (165)

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<222> (166)

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<220>

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<222> (187)

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<400> 401

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acaattgttg aaacctgcta tacatgttta ttttaataaa ttgatggcaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anccnngggg ggggcccccc 180
ccccccntt                                     189
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<210> 402

<211> 174

<212> DNA

<213> Homo sapiens

<220>

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<222> (73)

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<221> misc feature

<222> (103)

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<220>

<221> misc feature

<222> (107)

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<222> (130)

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<222> (132)

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<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<400> 402
aatcggcan agctgaggca ggagaatcgc ttgaattcgg gaggcagagc tgagatcaca 60
cctctgacac tcnagcctgg gtgacagagc gagactccgt ctnaggnaag gaaaaaaaaa 120
aaaaaaaaan cncggggggg gccccngtnc ccaattggcc ctatagnggg tcgt 174

<210> 403
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

355

<400> 403

ggcanagcca acccagcagt ccttcctca gctgcctagg aggaaggac ccagctgggt 60
ctgggaccac aaggaggag actgcacccc actgcctctg ggccctggct gtgggcagag 120
gccaccgtgt gtgtcccag taaccgtgcc gtgtcgtgt gatgccataa gcgtctgtgc 180
gtggagtccc caatgaaacc tgtggtcctg cctgggcaaa aaaaaaaaaa naaanaaaa 240
anaaagaaaa anaanaaan aaa 263

<210> 404

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 404

tcgacccacg cgctccgggg ctgcagcatg ttgctgagga gtgaggaata gttgagcccc 60
aagtccctgaa gaggcgggcc agccaggctg acatctgtgt ttcaagtggg gctcgccatg 120
ccggggggttc ataggtcact ggctctccaa gtgccagang tgggcagggtg gtggcactga 180
gcccccccaa cactgtgccc tggtgagaa agcactgacc tgtcatgccc ccctcaaacc 240
tcctcttctg acgtgcctnt tgcacccctc ccattaggac aatcagtccc ctcccatctg 300
ggagtccctt tttcttttct accctagcca ttcttggtac ccagccatct gcccaagggt 360
gccccctcct ctcccatccc cctgccctcg tgggcagccc ggctggtttt gtaaatgtgg 420
gttgtgnaca gtgatttttt cttgtattta aaaaaggcca gcattgtggt tcattaaa 478

<210> 405

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<400> 405
agacagcagg acggtggcca tggaagtcgg aatccgctaa ggagtgtgta acaactcacc 60
tgccgaatca actagccctg aaaatggatg gcgctggagc gtcggggcca taccggtccg 120
tcgcccggcag tcgagagtgg acggggancgg cggggggcngc gcgcgcgcgc gncgtgatgg 180
tgtgctgcgg agggcggcgg cggcggcggg ggtgtgnggt ccn 223

<210> 406
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<400> 406
cccacgcntc cgccgacagc agcagcctca ccatgangtt gctgatggtc ctcagtctgg 60
cggccctctc ccagcactgc nacgcaggct ctngctgccc ctna 104

<210> 407
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 407
gccctatagt gagtctngta ncaattcact ggccgctcgtt ttacaacgtc gtgacgngga 60
aaactn 66

<210> 408
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 408

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gggcanagca agctcctgna cctcaagtga tccacatgcc ttggttgacc aaattgctgg 60
gattacaggc atgagccaat atgaccagct caaacatctt ctttttaa at gtcagaagca 120
tgtatagtga ttatttctta tttttccccc ctgatccat ctcaccagat gtttggtgat 180
tttataagaa ttttcaaact accagcttct ggctttgttg aacttgggat ttctgtttca 240
ctaattttct tntcctgtc ttgtacttac ttgntgg 278
```

<210> 409

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 409

```
aataaaactc taaaangatc actataaaaa aagcaggnac gcctgcaggt accggtccgg 60
aattccccggg tcgaccacacg cgtccgacgg ctgcgagaag acgacagaag ggcacgggctg 120
cgagaanacg acagaagggg gcnantgaaa gaaggcggca gaaaggnt 168
```

<210> 410

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 410

```
tgaataccta agatttctgt cttgggggttt ttggtgcatg cagttgatta cttcttattt 60
ttcttaccaa ttgtgaatgt tgggtgtgaaa caattaatga agcttttgaa tcatccctat 120
tctgtgtttt atctagtcac ataaatggat taattactaa tttcagttga gaccttctaa 180
ttgggttttta ctgaaacatt gagggaaacac aaatttatgg gcttcctgat gatgattctt 240
ctaggcatca tgcctctatg tttgtcatcc ctgatgaatg taaaattaca ctgttcacaa 300
aggttttngtc tcctttccac tgctattaat catgggtcact ctcccnaaa tattatattt 360
tttctattaa aagaaaaaaa tggaaaaaaa ttacaaggca atggaaacta ttata 415
```

<210> 411

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<400> 411

```
gcagatcaga cgctggcgacc cgctgaattt aagcatatta gtcagcggag gagaagaaac 60
taaccaggat tccctcagta acggcgagtg aacagggaag agcccagcgc cgaatccccg 120
ccccgcggcg gggcgcgga catgtggcgt acggaagacc cgctccccg cgccgctcgt 180
ggggggccca agtccttctg atcgaggccc agcccgaggga cgggtgtgagg ccggtagcgg 240
cccccggcgc gccgggccc ggtcttccc gagtcgggtt gcttggaat gcagcccaa 300
gcgggtggt aactccatct aaggctaaat ccccttgtaa atttaactgt tagtccaaag 360
aggaacagct ctttgacac tangaaaaa ccttgtagag agagtaaaaa atttaacacc 420
catagtaggc ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc 480
taaaaaatcc caaacatata actgaactcc tnacaccna ttggaccaat ctatcaccct 540
atanaanaac taatggtagt ataagtaaca tgaaaacatt ctncttcgca taagcctgng 600
tanattaaaa cacttgaact gaccattaac aggccca 636
```

<210> 412

<211> 182

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 412
ccattgattt ttatcaatag tcgtattcat acggatagtc ctggtattgt tccatcacat 60
tctgaggatg ctcttcgaac tcttcaaatt cttcttccat atatcacctt aaatagtgga 120
ttgcggtant aaagattgtg cctgtctttt aaccacatca ggctcngann gntctcgtga 180
ac 182

<210> 413
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 413
tcgacccacg cgtccgcca cgcgtccgcc aagaccaccc tcctttcatt tgctagaagg 60
actcactaga ctcaggaaag ctgttaggct cacagttaca gtttattaca gtaaaaggac 120
agagattaag atcagcaaag ggaggagggtg cacagcnacg ttccacgaca gatgaggcga 180
cggcttccat ctgccctctc ccagtggagc catataggca gcacctgatt ctcacagcaa 240
catgtgacaa canccaagaa gtactgccaa tactgccaac cagagcagct tcactcggag 300
atctttgtgt tccaganttt ttngtttgtc ttggagacag ggtctgggnc ngtttgggca 360
gacnaagagt acatggtgga gattcac 387

<210> 414
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 414

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gcaaaggtcc atactgggta cttggtttca ttgccaccac ttagtggatg ttcagtttan 60
aaccattttg tctgctccct ctggaagcct tgcgcatagc ttactttgta attgttgag 120
aataactgct gaatttttag ctgttttgag ttgattcgca ccactgcacc acaactcact 180
atgaanacta ttancttat ttattatctt gtgaaaagta taccatgaaa attttgnctca 240
tactgtatct atcaagtatn attaanagca ctagat 276
```

<210> 415

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<400> 415

```
aaaagattgg actaagacac tggccatacc actggacagg gttatgttaa cacctgaaat 60
tgctgggtct tgagagancc caacgcantt ctgggagang gaccacattg gggggtaggt 120
ccacgggctt ggtgatagaa ttatntctcn atcgacttct tgantgcnat atgaactgta 180
acatttgctt ag                                     192
```

<210> 416

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

365

<222> (434)

<223> n equals a,t,g, or c

<400> 416

```

gcgagantnc gacagaaggg tacggctgcg agagacgaca gaagggtacg gctgcgagaa 60
gacnacagaa gggtagcgct gcgagaagac gacagaaggg tacggctgcg agaagacgac 120
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagaagga 180
tacggctgcg agaagacgac agaagggaga atcttagttc aactttaaat ttgcccacag 240
aaccctctaa atccccttgt aaatttaact gttagtccaa agaggaacag ctctttggac 300
actaggaaaa aaccttgtag agagagtaaa aaatttaaca cccatagtag gcctaaaagc 360
agccaccaat taagaaagcg ttcaaagctc aacacccact acccanaaaa taaaaanaaa 420
naaaaacccg nggnccgct                                     439

```

<210> 417

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<400> 417

```

gacatcttnt tggtttttat tttgaaacaa tttttaggct tgttccgggg gtctctgtgc 60
tgccctgtact gtattgacct gttntatagg tgccttttta ttaaaaagaa aattcaaaaa 120

```

annaaaaaaaa aaattaataa aaaaaaaaaa aanca

155

<210> 418

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 418

gaaaaaagaa atccatatct taaagaaaca gctttcaagt gcctttctgc agtttttcag 60
gagcgcaaga tagatttgga ataggaataa gctctagttc ttaacaaccg acactcctac 120
aagatttaga aaaaagttta caacataatc tagtttacag aaaaatcttg tgctagaata 180
cttttttaaa ggtattttga ataccattaa aactgctttt ttttttccag caagtatcca 240
accaacttgg ttctgcttca ataaatcttt ggaaaaacta atttnnanna n 291

<210> 419

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

367

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Asp | Trp | Phe | Leu | Trp | Tyr | Val | Lys | Lys | Cys | Gly | Gly | Thr | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Arg | Ile | Ile | Ser | Thr | Thr | Asn | Gly | Gly | Gln | Glu | Arg | Lys | Phe | Val | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Ser | Gly | Gln | Val | Ser | Glu | Arg | Ile | Met | Asp | Leu | Leu | Gly | Asp | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Lys | Leu | Glu | Arg | Pro | Val | Ile | Tyr | Ile | Asp | Gln | Thr | Arg | Glu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Val | Leu | Val | Glu | Thr | Leu | Asn | His | Glu | Met | Tyr | Glu | Ala | Lys | Tyr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ile | Ser | Ala | Ile | Pro | Pro | Thr | Leu | Gly | Met | Lys | Ile | His | Phe | Asn | Pro |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Pro | Leu | Pro | Met | Met | Arg | Asn | Gln | Met | Ile | Thr | Arg | Val | Pro | Leu | Gly |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Ser | Val | Ile | Lys | Cys | Ile | Val | Tyr | Tyr | Lys | Glu | Pro | Phe | Trp | Arg | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Lys | Asp | Tyr | Cys | Gly | Thr | Met | Ile | Ile | Asp | Gly | Glu | Glu | Ala | Pro | Val |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ala | Tyr | Thr | Leu | Asp | Asp | Thr | Lys | Pro | Glu | Gly | Asn | Tyr | Ala | Ala | Ile |
| 145 | | | | 150 | | | | | | 155 | | | | | 160 |
| Met | Gly | Phe | Ile | Leu | Ala | His | Lys | Ala | Arg | Lys | Leu | Ala | Arg | Leu | Thr |
| | | | 165 | | | | | 170 | | | | | 175 | | |
| Lys | Glu | Glu | Arg | Leu | Lys | Lys | Leu | Cys | Glu | Leu | Tyr | Ala | Lys | Val | Leu |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Gly | Ser | Leu | Glu | Ala | Leu | Glu | Pro | Val | His | Tyr | Glu | Glu | Lys | Asn | Trp |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Cys | Glu | Glu | Gln | Tyr | Ser | Gly | Gly | Cys | Tyr | Thr | Thr | Tyr | Phe | Pro | Pro |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Gly | Ile | Leu | Thr | Gln | Tyr | Gly | Arg | Val | Leu | Arg | Gln | Pro | Val | Asp | Arg |
| 225 | | | | 230 | | | | | | 235 | | | | | 240 |
| Ile | Tyr | Phe | Ala | Gly | Thr | Glu | Thr | Ala | Thr | His | Trp | Ser | Gly | Tyr | Met |
| | | | 245 | | | | | 250 | | | | | | 255 | |

368

Glu Gly Ala Val Glu Ala Gly Glu Arg Ala Ala Arg Glu Ile Leu His
 260 265 270
 Ala Met Gly Lys Ile Pro Glu Asp Glu Ile Trp Gln Ser Glu Pro Glu
 275 280 285
 Ser Val Asp Val Pro Ala Gln Pro Ile Thr Thr Thr Phe Leu Glu Arg
 290 295 300
 His Leu Pro Ser Val Pro Gly Leu Leu Arg Xaa Ile Gly Leu Thr Thr
 305 310 315 320
 Ile Phe Ser Ala Thr Ala Leu Gly Phe Leu Ala His Lys Arg Gly Leu
 325 330 335
 Leu Val Arg Val
 340

<210> 420

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 420

Thr Arg Asp Leu Val Ser Phe Ile Ser Gly Ile Arg Leu Tyr Asn Leu
 1 5 10 15
 Met Leu Ser Val Leu Arg His Lys Arg Gln Asn Val Ala Tyr Phe Arg
 20 25 30
 Ile Cys Phe Phe Ile Glu Val Ser Gly Ile Leu Ser Lys Ile Val Xaa
 35 40 45
 Ser Arg His Cys Ser Leu Cys Ser Ser Gly Thr Ser Cys Pro Leu Leu
 50 55 60
 Ser Leu Gln Ala Thr Gly Asn Ala Ser Val Leu Val Ser Trp Arg Lys
 65 70 75 80
 Ile Thr Trp Gly Glu Gly Thr Ser Cys Gly Lys Ser Lys Cys Arg Tyr
 85 90 95
 Glu Met Arg Arg Leu Pro Gln Leu Lys Val Asp Lys Ser Ala Leu

369

100

105

110

<210> 421

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 421

Xaa Ile Trp Cys Ile Ile Cys Lys Glu Ser Lys Met Met Ser Phe Pro
 1 5 10 15

Arg Gly Met Asn Leu Arg Asn Ala Phe Asp Gly Asp Val Ser Val Thr
 20 25 30

Leu Cys Tyr Ser Gly Ser Ser Asn Asn Ser Lys Ala Asn Tyr Ser Lys
 35 40 45

Cys Lys Ile Phe Leu Phe Pro Arg Phe Thr Phe Val Trp
 50 55 60

<210> 422

<211> 51

<212> PRT

<213> Homo sapiens

<400> 422

Thr His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp
 1 5 10 15

Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln His Arg Thr
 20 25 30

Arg Gly Ser Cys Pro Arg Ala Asp Gly Ala Arg Arg Glu Val Leu Pro
 35 40 45

Asp Lys Leu
 50

<210> 423

<211> 246

370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Asn | Asp | Met | Lys | Ala | Asp | Cys | Ile | Leu | Tyr | Tyr | Gly | Phe | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Phe | Arg | Ile | Ser | Ser | Met | Val | Val | Met | Glu | Asn | Val | Gly | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Leu | Tyr | Glu | Met | Val | Ser | Tyr | Cys | Gln | Asn | Ile | Ser | Lys | Cys |
| | 35 | | | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Val | Leu | Met | Ala | Gln | His | Phe | Asp | Glu | Val | Trp | Asn | Ser | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Asn | Lys | Met | Cys | Xaa | Asn | Cys | Cys | Lys | Asp | Ser | Ala | Phe | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Asn | Ile | Thr | Glu | Tyr | Cys | Arg | Asp | Leu | Ile | Lys | Ile | Leu | Lys |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Glu | Gly | Xaa | Gly | Met | Glu | Lys | Leu | Thr | Pro | Ile | Gly | Asn | Trp |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Ser | Trp | Xaa | Gly | Lys | Gly | Ala | Ala | Lys | Leu | Arg | Val | Ala | Gly |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Ala | Pro | Thr | Leu | Pro | Arg | Glu | Asp | Leu | Glu | Lys | Ile | Ile | Ala |
| | 130 | | | | | | 135 | | | | | 140 | | | |

371

His Phe Xaa Ile Gln Gln Tyr Leu Lys Glu Asp Tyr Ser Phe Thr Ala
 145 150 155 160
 Tyr Ala Thr Ile Ser Tyr Leu Lys Ile Gly Pro Lys Ala Asn Leu Leu
 165 170 175
 Asn Asn Glu Ala His Ala Ile Thr Met Gln Val Thr Lys Ser Thr Gln
 180 185 190
 Asn Ser Phe Arg Ala Glu Ser Ser Gln Thr Cys His Ser Glu Gln Gly
 195 200 205
 Asp Lys Lys Met Glu Glu Lys Asn Ser Gly Asn Phe Gln Lys Lys Ala
 210 215 220
 Ala Asn Met Leu Gln Gln Ser Gly Ser Lys Asn Thr Gly Ala Lys Lys
 225 230 235 240
 Arg Lys Ile Asp Asp Ala
 245

<210> 424

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424

Asp His Trp Pro Arg Pro Glu Trp Leu Pro Cys Thr Ser Trp Arg Arg
 1 5 10 15
 Ala Ser Cys Leu Asn His Val Asn Cys His His Leu Ala Thr Pro Ala
 20 25 30
 Pro Ala Ser Ala Leu Pro Pro Phe Pro Pro Ser Trp Ser Gly Gly Tyr
 35 40 45
 Arg Ser Leu Gly Pro Thr Leu Ala Pro Leu Ser Pro Ala Ser Val Cys
 50 55 60
 Leu Thr Val Phe Pro Pro Leu Pro Gln Leu Arg Cys Xaa Pro Gln Ala
 65 70 75 80
 Trp Cys Cys Leu Gly Gly Leu Gly Glu Gly Val Cys Gly Gly Gly Arg
 85 90 95

372

Arg Val Lys Thr Glu Ala Arg Cys Gln Asn Gly Leu Glu
 100 105

<210> 425
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 425
 Gly Ser Glu Thr Xaa Lys Tyr Leu Val Glu Asp Lys Arg Leu Gly Leu
 1 5 10 15

Tyr Thr Trp Leu Cys Thr Asp Leu Leu Ser His Ile Gly Asn His His
 20 25 30

Thr Leu Gln Gly Ile Ser Phe Ile Cys Lys Met Gln Arg Leu Val Leu
 35 40 45

Xaa Asn His Thr Asn Phe Phe Val Leu
 50 55

<210> 426
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 426
 Phe Gly Thr Ser Gly Asp Gly Gly Gly Ser Lys Met Ala Gln Ala Ile
 1 5 10 15

Phe Glu Ala Leu Glu Gly Met Asp Asn Gln Thr Val Leu Ala Val Gln

373

20 25 30
 Ser Leu Leu Asp Gly Gln Gly Ala Val Pro Asp Pro Thr Gly Gln Ser
 35 40 45
 Val Asn Ala Pro Pro Ala Ile Gln Pro Leu Asp Asp Glu Asp Val Phe
 50 55 60
 Leu Cys Gly Lys Cys Lys Lys Gln Phe Asn Ser Leu Pro Ala Phe Met
 65 70 75 80
 Thr His Lys Arg Glu Gln Cys Gln Gly Asn Ala Pro Ala Leu Ala Xaa
 85 90 95
 Val Ser Leu

<210> 427
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 427
 Asn Ser Asn Ser Ser Ile Phe Ser Leu Val Ser Val Lys Cys Asp Lys
 1 5 10 15
 Ser Thr Tyr Phe Lys Leu Phe Ser Ala Leu Gly Tyr Ser Ser Asn Lys
 20 25 30
 Asn Thr Asn Leu Trp Val Phe Lys Lys Thr Trp Arg Ile Asn Ser Tyr
 35 40 45
 Phe Lys Arg Ser Lys Lys Lys
 50 55

<210> 428
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 428
 His Thr Leu Ser Asn Leu Glu Phe Ala Gln Lys Val Glu Pro Cys Asn

374

1 5 10 15
Asp His Val Arg Ala Lys Leu Ser Trp Ala Lys Lys Arg Asp Glu Asp
20 25 30
Asp Val Pro Thr Val Pro Ser Thr Xaa Gly Glu Glu Arg Leu Tyr Asn
35 40 45
Pro Phe Leu Arg Val Ala
50

<210> 429
<211> 39
<212> PRT
<213> Homo sapiens

<400> 429
Arg Gln Thr Lys Val Asn Leu Lys Glu Thr Arg Ser Phe Glu Ile Ile
1 5 10 15
Val Trp Gly Phe Tyr Lys Ser Asn Tyr Cys His Leu His Pro Asp Ser
20 25 30
Phe Lys Leu Leu Ile His Pro
35

<210> 430
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 430
Ala Arg Ala Pro Arg Val Pro Pro Ala Pro His Thr Pro Ser Lys Met
1 5 10 15
Gly Lys Glu Lys Thr His Ile Asn Ile Val Val Ile Gly His Val Asp
20 25 30

375

Ser Gly Lys Ser Thr Thr Thr Gly His Leu Ile Tyr Lys Cys Gly Gly
 35 40 45
 Ile Asp Lys Arg Thr Ile Glu Lys Phe Glu Lys Glu Ala Ala Glu Met
 50 55 60
 Gly Lys Gly Ser Phe Lys Tyr Ala Trp Val Leu Asp Lys Leu Lys Ala
 65 70 75 80
 Xaa Val Ser Ala Xaa Ile Thr Ile Asp Ile Ser Leu Trp Lys Phe Glu
 85 90 95
 Thr Thr Lys Tyr Tyr Ile Thr Ile Ile Asp Ala Pro Gly His Arg Asp
 100 105 110
 Phe Ile Lys Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Cys Ala Val
 115 120 125
 Leu Ile Val Ala Ala
 130

<210> 431
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 431
 Leu Cys Trp Ala Arg Pro Leu Pro Ser Gly Pro Val Leu Leu Ala Ala
 1 5 10 15
 Asn Lys Asp Ser Ser Trp Cys Pro Thr Cys Leu Val His Cys Cys Val
 20 25 30
 Asn Pro Gly Gly Ser Gly His Arg Arg Gln Pro Arg Pro Arg Val Gln
 35 40 45
 Glu Lys Cys Ser Leu Glu Ala Arg Thr Thr Ala Ser His Trp Gly Arg
 50 55 60
 Arg Gly Pro Arg Thr Thr Ser Ala Ser Tyr Leu Pro Ala Ser Ala Arg
 65 70 75 80
 Gly Pro Arg Asp Ala Val Leu Phe Gln Pro Pro Ala Leu Gly Arg Gly
 85 90 95
 His Ala Ser Arg Ile Gln Gly Ala Gly Gly Leu Ser Thr Ala Arg Thr
 100 105 110

376

Cys Leu Leu Ala Ala Ala Ala Val Gly Glu His Gly Gly Cys Gln Arg
 115 120 125

Leu Leu Trp Lys Val Ala Ala Ser Glu Met Ala Gly Ala Ala Gly Val
 130 135 140

Arg Leu His Thr Ala Gln Val Ser Ser Gly Arg Leu Ser Trp Gly Gly
 145 150 155 160

Ser Ser Ser Ala Glu Gly Trp Trp Gly Val Gln Ser Val Ile Leu Gly
 165 170 175

Ala Val Cys Pro Thr Pro Ala Trp Gly Pro His Phe Arg Arg
 180 185 190

<210> 432

<211> 310

<212> PRT

<213> Homo sapiens

<400> 432

Gly Pro His Gly Asn Gly Glu Val Arg Trp Pro Leu Pro Pro Pro Pro
 1 5 10 15

Pro Arg Phe Val Ala Arg Arg Lys Met Ala Asp Leu Glu Glu Gln Leu
 20 25 30

Ser Asp Glu Glu Lys Val Arg Ile Ala Ala Lys Phe Ile Ile His Ala
 35 40 45

Pro Pro Gly Glu Phe Asn Glu Val Phe Asn Asp Val Arg Leu Leu Leu
 50 55 60

Asn Asn Asp Asn Leu Leu Arg Glu Gly Ala Ala His Ala Phe Ala Gln
 65 70 75 80

Tyr Asn Leu Asp Gln Phe Thr Pro Val Lys Ile Glu Gly Tyr Glu Asp
 85 90 95

Gln Val Leu Ile Thr Glu His Gly Asp Leu Gly Asn Gly Lys Phe Leu
 100 105 110

Asp Pro Lys Asn Arg Ile Cys Phe Lys Phe Asp His Leu Arg Lys Glu
 115 120 125

Ala Thr Asp Pro Arg Pro Cys Glu Val Glu Asn Ala Val Glu Ser Trp
 130 135 140

Arg Thr Ser Val Glu Thr Ala Leu Arg Ala Tyr Val Lys Glu His Tyr

377

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 |
| Pro Asn Gly Val Cys Thr Val Tyr Gly Lys Lys Ile Asp Gly Gln Gln | | | | | | |
| | 165 | | 170 | | 175 | |
| Thr Ile Ile Ala Cys Ile Glu Ser His Gln Phe Gln Ala Lys Asn Phe | | | | | | |
| | 180 | | 185 | | 190 | |
| Trp Asn Gly Arg Trp Arg Ser Glu Trp Lys Phe Thr Ile Thr Pro Ser | | | | | | |
| | 195 | | 200 | | 205 | |
| Thr Thr Gln Val Val Gly Ile Leu Lys Ile Gln Val His Tyr Tyr Glu | | | | | | |
| | 210 | | 215 | | 220 | |
| Asp Gly Asn Val Gln Leu Val Ser His Lys Asp Ile Gln Asp Ser Leu | | | | | | |
| 225 | | 230 | | 235 | | 240 |
| Thr Val Ser Asn Glu Val Gln Thr Ala Lys Glu Phe Ile Lys Ile Val | | | | | | |
| | 245 | | 250 | | 255 | |
| Glu Ala Ala Glu Asn Glu Tyr Gln Thr Ala Ile Ser Glu Asn Tyr Gln | | | | | | |
| | 260 | | 265 | | 270 | |
| Thr Met Ser Asp Thr Thr Phe Lys Ala Leu Arg Arg Gln Leu Pro Val | | | | | | |
| | 275 | | 280 | | 285 | |
| Thr Arg Thr Lys Ile Asp Trp Asn Lys Ile Leu Ser Tyr Lys Ile Gly | | | | | | |
| | 290 | | 295 | | 300 | |
| Lys Glu Met Gln Asn Ala | | | | | | |
| 305 | | 310 | | | | |

<210> 433

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433

Gln Ser Cys Thr Ser Gly Ser Ser Lys Pro Asn Ser Pro Ser Ile Ser

378

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Pro Ser Ile Leu Ser Asn Thr Glu His Lys Arg Gly Pro Glu Val Thr | 20 | 25 | 30 |
| Ser Gln Gly Val Gln Thr Ser Ser Pro Ala Cys Lys Gln Glu Lys Asp | 35 | 40 | 45 |
| Asp Lys Glu Glu Lys Lys Asp Ala Ala Glu Gln Val Arg Lys Ser Thr | 50 | 55 | 60 |
| Leu Asn Pro Asn Ala Lys Glu Phe Asn Pro Arg Ser Phe Ser Gln Pro | 65 | 70 | 75 |
| Lys Pro Ser Thr Thr Pro Thr Ser Pro Arg Pro Gln Ala Gln Pro Ser | 85 | 90 | 95 |
| Pro Ser Met Val Gly His Gln Gln Pro Thr Pro Val Tyr Thr Gln Pro | 100 | 105 | 110 |
| Val Cys Phe Ala Pro Asn Met Met Tyr Pro Val Pro Val Ser Pro Gly | 115 | 120 | 125 |
| Val Gln Pro Leu Tyr Pro Ile Pro Met Thr Pro Met Pro Val Asn Gln | 130 | 135 | 140 |
| Ala Lys Thr Tyr Arg Ala Gly Lys Val Pro Asn Met Pro Gln Gln Arg | 145 | 150 | 155 |
| Gln Asp Gln His His Gln Ser Ala Met Met His Pro Ala Ser Ala Ala | 165 | 170 | 175 |
| Gly Pro Pro Ile Ala Ala Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val | 180 | 185 | 190 |
| Ala Tyr Ser Pro Gln Gln Phe Pro Asn Gln Pro Leu Val Gln His Val | 195 | 200 | 205 |
| Pro His Tyr Gln Ser Gln His Pro His Val Tyr Ser Pro Val Ile Gln | 210 | 215 | 220 |
| Gly Asn Ala Arg Met Met Ala Pro Pro Thr His Ala Gln Pro Gly Leu | 225 | 230 | 235 |
| Val Ser Ser Ser Ala Thr Gln Tyr Gly Ala His Glu Gln Thr His Ala | 245 | 250 | 255 |
| Met Tyr Ala Cys Pro Lys Leu Pro Tyr Asn Lys Glu Thr Ser Pro Ser | 260 | 265 | 270 |
| Phe Tyr Phe Ala Ile Ser Thr Gly Ser Leu Ala Gln Gln Tyr Xaa Xaa | | | |

379

275

280

285

Pro

<210> 434

<211> 147

<212> PRT

<213> Homo sapiens

<400> 434

Lys Val Thr Pro Asp Leu Lys Pro Thr Glu Ala Ser Ser Ser Ala Phe
 1 5 10 15

Arg Leu Met Pro Ala Leu Gly Val Ser Val Ala Asp Gln Lys Gly Lys
 20 25 30

Ser Thr Val Ala Ser Ser Glu Ala Lys Pro Ala Ala Thr Ile Arg Ile
 35 40 45

Val Gln Gly Leu Gly Val Met Pro Pro Lys Ala Gly Gln Thr Ile Thr
 50 55 60

Val Ala Thr His Ala Lys Gln Gly Ala Ser Val Ala Ser Gly Ser Gly
 65 70 75 80

Thr Val His Thr Ser Ala Val Ser Leu Pro Ser Met Asn Ala Ala Val
 85 90 95

Ser Lys Thr Val Ala Val Ala Ser Gly Ala Ala Arg Pro Pro Ser Ala
 100 105 110

Ser Ala Gln Glu Pro Pro Pro Cys Gly Arg Ser Leu Ser Ala Pro Arg
 115 120 125

Leu Cys Pro Arg Pro Arg Leu Gly Ser Cys Leu His Gly Ser Gln Phe
 130 135 140

Pro Ser Leu
 145

<210> 435

<211> 151

<212> PRT

<213> Homo sapiens

<220>

380

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Thr | Lys | Asp | Pro | Ser | Xaa | Cys | Asn | Thr | Gln | Thr | Xaa | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Thr | His | Thr | Gly | Gly | Glu | Ile | Ser | Leu | Phe | Ser | Met | Ser | Phe | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Ala | Glu | Thr | Gly | Tyr | Cys | Pro | Gly | Gln | Leu | Pro | Glu | Lys | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Glu | Leu | Arg | Ser | Ala | Arg | Pro | Ser | Ser | Leu | Ala | Pro | Gly | Phe |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Pro | Arg | Thr | Ala | Asp | Arg | Gly | Trp | Ser | Trp | Arg | Leu | Xaa | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Tyr | Thr | Trp | Arg | Asn | Ala | Pro | Pro | Ser | Ser | Pro | Ser | Leu | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Trp | Gly | Trp | Leu | Gly | Pro | Glu | Gly | Cys | Asp | Glu | Glu | Lys | Arg | Ala |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Gly | Met | Arg | Gln | Glu | Gly | Ile | Asp | Phe | Asp | Cys | Asp | Leu | Trp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Leu | Pro | Ala | Leu | Asp | Asn | Pro | Ala | Lys | Asp | Cys | Phe | Phe | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ala | Arg | Arg | Gly | Pro |
| 145 | | | | | 150 | |

<210> 436

<211> 180

<212> PRT

<213> Homo sapiens

381

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 436

Ala Pro Ala Ser Pro Val Met Pro Pro Gln Thr Gln Ser Pro Gly Gln
 1 5 10 15

Pro Ala Gln Pro Ala Pro Met Val Pro Leu His Gln Lys Gln Ser Arg
 20 25 30

Ile Thr Pro Ile Gln Lys Pro Arg Gly Xaa Asp Pro Val Glu Ile Leu
 35 40 45

Gln Glu Arg Glu Tyr Arg Leu Gln Ala Arg Ile Ala His Arg Ile Gln
 50 55 60

Glu Leu Glu Asn Leu Pro Gly Ser Leu Ala Gly Asp Leu Arg Thr Lys
 65 70 75 80

Ala Thr Ile Glu Leu Lys Ala Leu Arg Leu Leu Asn Phe Gln Arg Gln
 85 90 95

Leu Arg Gln Glu Val Val Val Cys Met Arg Arg Asp Thr Ala Leu Glu
 100 105 110

Thr Ala Leu Asn Ala Lys Ala Tyr Lys Arg Xaa Ser Ala Ser Pro Cys
 115 120 125

Ala Arg Pro Ala Ser Leu Arg Ser Trp Arg Ser Ser Arg Arg Ser Ser
 130 135 140

Arg Ser Ala Ser Ala Gly Arg Ser Thr Arg Asn Thr Ser Ile Ala Phe
 145 150 155 160

Ser Ser Met Pro Arg Ile Ser Arg Asn Ile Thr Asp Pro Ser Gln Ala
 165 170 175

Lys Ser Arg Ser
 180

<210> 437

382

<211> 415
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 437

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Tyr | Leu | Val | Pro | Leu | Xaa | Lys | Lys | Leu | Tyr | Leu | Lys | Trp | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Glu | Glu | Tyr | Leu | Asp | Glu | Phe | Asp | Pro | Cys | His | Cys | Arg | Pro | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gln | Asn | Gly | Gly | Leu | Ala | Thr | Val | Glu | Gly | Thr | His | Cys | Leu | Cys | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Cys | Lys | Pro | Tyr | Thr | Phe | Gly | Ala | Ala | Cys | Glu | Gln | Gly | Val | Leu | Val |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Asn | Gln | Ala | Gly | Gly | Val | Asp | Gly | Gly | Trp | Ser | Cys | Trp | Ser | Ser |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Trp | Ser | Pro | Cys | Val | Gln | Gly | Lys | Lys | Thr | Arg | Ser | Arg | Xaa | Cys | Xaa |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Asn | Pro | Pro | Pro | Ser | Gly | Gly | Gly | Arg | Ser | Cys | Val | Gly | Glu | Thr | Thr |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Ser | Thr | Gln | Cys | Glu | Asp | Glu | Glu | Leu | Glu | His | Leu | Arg | Leu | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Pro | His | Cys | Phe | Pro | Leu | Ser | Leu | Val | Pro | Thr | Glu | Phe | Cys | Pro |
| | 130 | | | | | | 135 | | | | | 140 | | | |

383

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Pro | Ala | Leu | Lys | Asp | Gly | Phe | Val | Gln | Asp | Glu | Gly | Thr | Met | 145 | 150 | 155 | 160 |
| Phe | Pro | Val | Gly | Lys | Asn | Val | Val | Tyr | Xaa | Cys | Asn | Glu | Gly | Tyr | Ser | 165 | 170 | 175 | |
| Leu | Ile | Gly | Asn | Pro | Val | Ala | Arg | Cys | Gly | Glu | Asp | Leu | Arg | Trp | Leu | 180 | 185 | 190 | |
| Val | Gly | Glu | Met | His | Cys | Gln | Lys | Ile | Ala | Cys | Val | Leu | Pro | Val | Leu | 195 | 200 | 205 | |
| Met | Asp | Gly | Ile | Gln | Ser | His | Pro | Gln | Lys | Pro | Phe | Tyr | Thr | Val | Gly | 210 | 215 | 220 | |
| Glu | Lys | Val | Thr | Val | Ser | Cys | Ser | Gly | Gly | Met | Ser | Leu | Glu | Gly | Pro | 225 | 230 | 235 | 240 |
| Ser | Ala | Phe | Leu | Cys | Gly | Ser | Ser | Leu | Lys | Trp | Ser | Pro | Glu | Met | Lys | 245 | 250 | 255 | |
| Asn | Ala | Arg | Cys | Val | Gln | Lys | Glu | Asn | Pro | Leu | Thr | Gln | Ala | Val | Pro | 260 | 265 | 270 | |
| Lys | Cys | Gln | Arg | Trp | Glu | Lys | Leu | Gln | Asn | Ser | Arg | Cys | Val | Cys | Lys | 275 | 280 | 285 | |
| Met | Pro | Tyr | Glu | Cys | Gly | Pro | Ser | Leu | Asp | Val | Cys | Ala | Gln | Asp | Glu | 290 | 295 | 300 | |
| Arg | Ser | Lys | Arg | Ile | Leu | Pro | Leu | Thr | Val | Cys | Lys | Met | His | Val | Leu | 305 | 310 | 315 | 320 |
| His | Cys | Gln | Gly | Arg | Asn | Tyr | Thr | Leu | Thr | Gly | Arg | Asp | Ser | Cys | Thr | 325 | 330 | 335 | |
| Leu | Pro | Ala | Ser | Ala | Glu | Lys | Ala | Cys | Gly | Ala | Cys | Pro | Leu | Trp | Gly | 340 | 345 | 350 | |
| Lys | Cys | Asp | Ala | Glu | Ser | Ser | Lys | Cys | Val | Cys | Arg | Glu | Ala | Ser | Glu | 355 | 360 | 365 | |
| Cys | Glu | Glu | Glu | Gly | Phe | Ser | Ile | Cys | Val | Glu | Val | Asn | Gly | Lys | Glu | 370 | 375 | 380 | |
| Gln | Thr | Met | Ser | Glu | Cys | Glu | Ala | Gly | Ala | Leu | Arg | Cys | Arg | Gly | Gln | 385 | 390 | 395 | 400 |
| Ser | Ile | Ser | Val | Thr | Ser | Ile | Arg | Pro | Cys | Ala | Ala | Glu | Thr | Gln | | 405 | 410 | 415 | |

384

<210> 438
 <211> 285
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 438
 Leu Ile Arg Leu Thr Ile Gly Lys Ala Gly Ser Leu Gln Tyr Arg Xaa
 1 5 10 15
 Xaa Xaa Phe Pro Gly Met Glu Ala Phe Leu Gly Ser Arg Ser Gly Leu
 20 25 30
 Trp Ala Gly Gly Pro Ala Pro Gly Gln Phe Tyr Arg Ile Pro Ser Thr
 35 40 45
 Pro Asp Ser Phe Met Asp Pro Ala Ser Ala Leu Tyr Arg Gly Pro Ile
 50 55 60
 Thr Arg Thr Gln Asn Pro Met Val Thr Gly Thr Ser Val Leu Gly Val
 65 70 75 80
 Lys Phe Glu Gly Gly Val Val Ile Ala Ala Asp Met Leu Gly Ser Tyr
 85 90 95
 Gly Ser Leu Ala Arg Phe Arg Asn Ile Ser Arg Ile Met Arg Val Asn
 100 105 110
 Asn Ser Thr Met Leu Gly Ala Ser Gly Asp Tyr Ala Asp Phe Gln Tyr
 115 120 125
 Leu Lys Gln Val Leu Gly Gln Met Val Ile Asp Glu Glu Leu Leu Gly
 130 135 140

385

Asp Gly His Ser Tyr Ser Pro Arg Ala Ile His Ser Trp Leu Thr Arg
145 150 155 160

Ala Met Tyr Ser Arg Arg Ser Lys Met Asn Pro Leu Trp Asn Thr Met
165 170 175

Val Ile Gly Gly Tyr Ala Asp Gly Glu Ser Phe Leu Gly Tyr Val Asp
180 185 190

Met Leu Gly Val Ala Tyr Glu Ala Pro Ser Leu Ala Thr Gly Tyr Gly
195 200 205

Ala Tyr Leu Ala Gln Pro Leu Leu Arg Glu Val Leu Glu Lys Gln Pro
210 215 220

Val Leu Ser Gln Thr Glu Ala Arg Asp Leu Val Glu Arg Cys Met Arg
225 230 235 240

Val Leu Tyr Tyr Arg Asp Ala Arg Ser Tyr Asn Arg Phe Gln Ile Ala
245 250 255

Thr Val Thr Glu Lys Gly Val Glu Ile Glu Gly Pro Leu Ser Thr Glu
260 265 270

Thr Asn Trp Asp Ile Ala His Met Ile Ser Gly Phe Glu
275 280 285

<210> 439

<211> 185

<212> PRT

<213> Homo sapiens

<400> 439

Asn Ser Ala Ala His Lys Lys Gly Lys Leu Pro Ile Val Asn Glu Asp
1 5 10 15

Asp Glu Leu Val Ala Ile Ile Ala Arg Thr Asp Leu Lys Lys Asn Arg
20 25 30

Asp Tyr Pro Leu Ala Ser Lys Asp Ala Lys Lys Gln Leu Leu Cys Gly
35 40 45

Ala Ala Ile Gly Thr His Glu Asp Asp Lys Tyr Arg Leu Asp Leu Leu
50 55 60

Ala Gln Ala Gly Val Asp Val Val Val Leu Asp Ser Ser Gln Gly Asn
65 70 75 80

Ser Ile Phe Gln Ile Asn Met Ile Lys Tyr Ile Lys Asp Lys Tyr Pro

386

| | | | | | |
|---|-----|--|-----|--|-----|
| | 85 | | 90 | | 95 |
| Asn Leu Gln Val Ile Gly Gly Asn Val Val Thr Ala Ala Gln Ala Lys | | | | | |
| | 100 | | 105 | | 110 |
| Asn Leu Ile Asp Ala Gly Val Asp Ala Leu Arg Val Gly Met Gly Ser | | | | | |
| | 115 | | 120 | | 125 |
| Gly Ser Ile Cys Ile Thr Gln Glu Val Leu Ala Cys Gly Arg Pro Gln | | | | | |
| | 130 | | 135 | | 140 |
| Ala Thr Ala Val Tyr Lys Val Ser Glu Tyr Ala Arg Arg Phe Gly Val | | | | | |
| | 145 | | 150 | | 155 |
| Pro Val Ile Ala Asp Gly Gly Ile Gln Asn Val Gly His Ile Ala Lys | | | | | |
| | 165 | | 170 | | 175 |
| Ala Leu Ala Leu Gly Ala Pro Gln Ser | | | | | |
| | 180 | | 185 | | |

<210> 440

<211> 211

<212> PRT

<213> Homo sapiens

<400> 440

| | | | | | |
|---|-----|---|-----|----|-----|
| Leu Gln Gly Arg Ser Thr Pro Ile Trp Pro Ala Leu Ala Thr Val Thr | | | | | |
| 1 | | 5 | | 10 | 15 |
| Ser Arg Thr Pro Ala Leu Gly Pro Gln Ala Gly Ile Asp Thr Asn Glu | | | | | |
| | 20 | | 25 | | 30 |
| Ile Ala Pro Leu Glu Pro Asp Ala Pro Pro Asp Ala Cys Glu Ala Ser | | | | | |
| | 35 | | 40 | | 45 |
| Phe Asp Ala Val Ser Thr Ile Arg Gly Glu Leu Phe Phe Phe Lys Ala | | | | | |
| | 50 | | 55 | | 60 |
| Gly Phe Val Trp Arg Leu Arg Gly Gly Gln Leu Gln Pro Gly Tyr Pro | | | | | |
| | 65 | | 70 | | 75 |
| Ala Leu Ala Ser Arg His Trp Gln Gly Leu Pro Ser Pro Val Asp Ala | | | | | |
| | 85 | | 90 | | 95 |
| Ala Phe Glu Asp Ala Gln Gly His Ile Trp Phe Phe Gln Gly Ala Gln | | | | | |
| | 100 | | 105 | | 110 |
| Tyr Trp Val Tyr Asp Gly Glu Lys Pro Val Leu Gly Pro Ala Pro Leu | | | | | |
| | 115 | | 120 | | 125 |

387

Thr Glu Leu Gly Leu Val Arg Phe Pro Val His Ala Ala Leu Val Trp
 130 135 140

Gly Pro Glu Lys Asn Lys Ile Tyr Phe Phe Arg Gly Arg Asp Tyr Trp
 145 150 155 160

Arg Phe His Pro Ser Thr Arg Arg Val Asp Ser Pro Val Pro Arg Arg
 165 170 175

Pro Leu Thr Gly Glu Gly Cys Pro Leu Arg Ser Thr Leu Pro Ser Arg
 180 185 190

Met Leu Met Ala Met Pro Thr Ser Cys Ala Ala Ala Ser Thr Gly Ser
 195 200 205

Leu Thr Leu
 210

<210> 441

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441

Gly Gly Ala Gly Lys Leu Leu Ser Phe Thr His Ser Ala Pro Trp Ser
 1 5 10 15

Arg Leu Trp Ser Ser Leu Gly Lys Arg Val Thr Gly Glu Ser Gln Gly
 20 25 30

Leu Glu Lys Leu Pro Gly Thr Xaa Asp Gly Leu Ala Ala Leu Thr Gln
 35 40 45

Asp Pro Leu Pro Leu Pro Pro Pro Leu Cys Arg Asn Thr Gly Thr Pro
 50 55 60

Arg Gly Lys Met Ser Phe Ser Arg Leu Gln Phe Ser Pro Arg Lys Leu
 65 70 75 80

<210> 442
<211> 567
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (503)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (517)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (535)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (546)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 442
Asn Val His Leu Tyr Ile Met Tyr Tyr Met Glu Ala Lys His Ala Val
1 5 10 15

Ser Phe Met Thr Cys Thr Gln Asn Val Ala Pro Asp Met Phe Arg Thr

389

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| | 20 | | 25 | | 30 | |
| Ile | Pro | Pro | Glu | Ala | Asn | Ile |
| | 35 | | 40 | | 45 | |
| Met | Met | His | Glu | His | His | Lys |
| | 50 | | 55 | | 60 | |
| Leu | Leu | Gln | Gln | Pro | Lys | Arg |
| | 65 | | 70 | | 75 | |
| Asp | Phe | Tyr | Ser | Leu | Leu | Ser |
| | | | 85 | | 90 | |
| Val | His | Val | His | Lys | Tyr | Asn |
| | | | 100 | | 105 | |
| Asp | Leu | Val | Ala | Glu | Ile | Ala |
| | | | 115 | | 120 | |
| Arg | Ser | Asp | Ala | Arg | Glu | Gly |
| | | | 130 | | 135 | |
| Leu | Val | Arg | Asp | Arg | Ile | His |
| | | | 145 | | 150 | |
| Arg | Pro | Pro | Glu | Ser | Arg | Val |
| | | | 165 | | 170 | |
| Glu | Gly | Thr | Trp | Glu | Pro | Glu |
| | | | 180 | | 185 | |
| Ala | Leu | Asp | Trp | Pro | Gly | Val |
| | | | 195 | | 200 | |
| Val | Ala | Leu | Xaa | Pro | Lys | Asn |
| | | | 210 | | 215 | |
| His | Val | Trp | Asp | Gly | Asn | Ser |
| | | | 225 | | 230 | |
| Ile | Gly | Leu | Gly | Pro | Ile | Glu |
| | | | 245 | | 250 | |
| Asn | Asn | Ala | Ala | Val | Leu | Gln |
| | | | 260 | | 265 | |
| Pro | His | Gly | Leu | Ser | Ile | Asp |
| | | | 275 | | 280 | |
| Val | Ala | Leu | His | Gln | Val | Phe |
| | | | | | | |

390

| | | |
|---|---------|---------|
| 290 | 295 | 300 |
| Pro Val Leu Ile Leu Gly Arg Ser Met Gln Pro Gly Ser Asp Gln Asn | | |
| 305 | 310 | 315 320 |
| His Phe Cys Gln Pro Thr Asp Val Ala Val Asp Pro Gly Thr Gly Ala | | |
| | 325 330 | 335 |
| Ile Tyr Val Ser Asp Gly Tyr Cys Asn Ser Arg Ile Val Gln Phe Ser | | |
| | 340 345 | 350 |
| Pro Ser Gly Lys Phe Ile Thr Gln Trp Gly Glu Glu Ser Ser Gly Ser | | |
| | 355 360 | 365 |
| Ser Pro Leu Pro Gly Gln Phe Thr Val Pro His Ser Leu Ala Leu Val | | |
| | 370 375 | 380 |
| Pro Leu Leu Gly Gln Leu Cys Val Ala Asp Arg Glu Asn Gly Arg Ile | | |
| 385 | 390 | 395 400 |
| Gln Cys Phe Lys Thr Asp Thr Lys Glu Phe Val Arg Glu Ile Lys His | | |
| | 405 410 | 415 |
| Ser Ser Phe Gly Arg Asn Val Phe Ala Ile Ser Tyr Ile Pro Gly Leu | | |
| | 420 425 | 430 |
| Leu Phe Ala Val Asn Gly Lys Pro His Phe Gly Asp Gln Glu Pro Val | | |
| | 435 440 | 445 |
| Gln Gly Phe Val Met Asn Phe Ser Asn Gly Glu Ile Ile Asp Ile Phe | | |
| | 450 455 | 460 |
| Lys Pro Val Arg Xaa Leu Leu Asp Met Pro His Asp Ile Val Ala Ser | | |
| 465 | 470 | 475 480 |
| Glu Asp Gly Thr Val Tyr Ile Gly Arg Cys Ser Tyr Gln His Arg Val | | |
| | 485 490 | 495 |
| Gly Ser Ser Thr Leu Asp Xaa Arg Xaa Leu Gly Thr Ser Val Gln Phe | | |
| | 500 505 | 510 |
| Lys Lys Gly Leu Xaa Ile Glu Val Gln Gly Asn Pro Lys Lys Pro Glu | | |
| | 515 520 | 525 |
| Gly Ile Cys Cys Phe Pro Xaa Thr Thr Leu Arg Val Ile Pro Val Val | | |
| | 530 535 | 540 |
| Gly Xaa Trp Arg Gly His Gly Pro Asn Leu Ile Pro Val Gly Lys Asn | | |
| 545 | 550 | 555 560 |
| Pro Arg Gly Pro Leu Gly Arg | | |

391

565

<210> 443
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 443
 Arg Pro Ser Cys Ser Pro Gly Ser Val Ser Ala Ala Ala Val Asn Met
 1 5 10 15
 Glu Pro Pro Asp Ala Pro Ala Gln Ala Arg Gly Ala Pro Arg Leu Leu
 20 25 30
 Leu Leu Ala Val Leu Leu Ala Ala His Pro Asp Ala Gln Ala Glu Val
 35 40 45
 Arg Leu Ser Val Pro Pro Leu Val Glu Val Met Arg Gly Lys Ser Val
 50 55 60
 Ile Leu Asp Cys Thr Pro Thr Gly Thr His Asp His Tyr Met Leu Glu
 65 70 75 80
 Trp Phe Leu Thr Asp Arg Ser Gly Ala Arg Pro Arg Leu Ala Ser Ala
 85 90 95
 Glu Met Gln Gly Ser Glu Leu Gln Val Thr Met His Asp Thr Arg Gly
 100 105 110
 Arg Ser Pro Pro Tyr Gln Leu Gly Leu Pro Xaa Gly Ala Trp Xaa Leu
 115 120 125

Xaa

392

<210> 444

<211> 131

<212> PRT

<213> Homo sapiens

<400> 444

Glu Pro Arg Val Glu Arg Glu Thr Pro Gly Gln Pro Phe Ser Ser Ser
 1 5 10 15

Phe Pro Ser Pro Ser Pro Phe Pro Asn Val Ala Ser Met Trp Val Leu
 20 25 30

Gly Thr Trp Glu Lys Pro Leu Leu Cys His Phe Phe Ser Leu Phe Pro
 35 40 45

Ser Ser Pro Pro Thr Val Trp Leu Met Met Ser Ser Gly Val Met Val
 50 55 60

Thr Thr Pro Cys Ser Leu Phe Trp Tyr Phe Pro Cys Gln Phe Pro Leu
 65 70 75 80

Ser Ala Arg Leu Cys Pro Lys Ile Pro Ser Ala Ser Ser Leu His Val
 85 90 95

Ala Glu Gly Pro Gly Leu Pro Gln Val Pro Cys Leu Ser Asn Lys Val
 100 105 110

Glu Thr Ile Lys Pro Gly Lys Lys Lys Lys Gly Gly Arg Ser Lys Gly
 115 120 125

Ser Pro Arg
 130

<210> 445

<211> 405

<212> PRT

<213> Homo sapiens

<400> 445

Gly Thr Gly Leu Val Pro Ile Arg Gln Ser Thr Lys Phe Asp Ser Ser
 1 5 10 15

Leu Asp Arg Lys Asp Lys Phe Ser Phe Asp Leu Gly Lys Gly Glu Val
 20 25 30

Ile Lys Ala Trp Asp Ile Ala Ile Ala Thr Met Lys Val Gly Glu Val

393

| | | |
|---|-----|-------------|
| 35 | 40 | 45 |
| Cys His Ile Thr Cys Lys Pro Glu Tyr Ala Tyr Gly Ser Ala Gly Ser | | |
| 50 | 55 | 60 |
| Pro Pro Lys Ile Pro Pro Asn Ala Thr Leu Val Phe Glu Val Glu Leu | | |
| 65 | 70 | 75 80 |
| Phe Glu Phe Lys Gly Glu Asp Leu Thr Glu Glu Glu Asp Gly Gly Ile | | |
| | 85 | 90 95 |
| Ile Arg Arg Ile Gln Thr Arg Gly Glu Gly Tyr Ala Lys Pro Asn Glu | | |
| | 100 | 105 110 |
| Gly Ala Ile Val Glu Val Ala Leu Glu Gly Tyr Tyr Lys Asp Lys Leu | | |
| | 115 | 120 125 |
| Phe Asp Gln Arg Glu Leu Arg Phe Glu Ile Gly Glu Gly Glu Asn Leu | | |
| | 130 | 135 140 |
| Asp Leu Pro Tyr Gly Leu Glu Arg Ala Ile Gln Arg Met Glu Lys Gly | | |
| | 145 | 150 155 160 |
| Glu His Ser Ile Val Tyr Leu Lys Pro Ser Tyr Ala Phe Gly Ser Val | | |
| | 165 | 170 175 |
| Gly Lys Glu Lys Phe Gln Ile Pro Pro Asn Ala Glu Leu Lys Tyr Glu | | |
| | 180 | 185 190 |
| Leu His Leu Lys Ser Phe Glu Lys Ala Lys Glu Ser Trp Glu Met Asn | | |
| | 195 | 200 205 |
| Ser Glu Glu Lys Leu Glu Gln Ser Thr Ile Val Lys Glu Arg Gly Thr | | |
| | 210 | 215 220 |
| Val Tyr Phe Lys Glu Gly Lys Tyr Lys Gln Ala Leu Leu Gln Tyr Lys | | |
| | 225 | 230 235 240 |
| Lys Ile Val Ser Trp Leu Glu Tyr Glu Ser Ser Phe Ser Asn Glu Glu | | |
| | 245 | 250 255 |
| Ala Gln Lys Ala Gln Ala Leu Arg Leu Ala Ser His Leu Asn Leu Ala | | |
| | 260 | 265 270 |
| Met Cys His Leu Lys Leu Gln Ala Phe Ser Ala Ala Ile Glu Ser Cys | | |
| | 275 | 280 285 |
| Asn Lys Ala Leu Glu Leu Asp Ser Asn Asn Glu Lys Gly Leu Phe Arg | | |
| | 290 | 295 300 |
| Arg Gly Glu Ala His Leu Ala Val Asn Asp Phe Glu Leu Ala Arg Ala | | |

394

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305              310              315              320
Asp Phe Gln Lys Val Leu Gln Leu Tyr Pro Asn Asn Lys Ala Ala Lys
      325              330              335

Thr Gln Leu Ala Val Cys Gln Gln Arg Ile Arg Arg Gln Leu Ala Arg
      340              345              350

Glu Lys Lys Leu Tyr Ala Asn Met Phe Glu Arg Leu Ala Glu Glu Glu
      355              360              365

Asn Lys Ala Lys Ala Glu Ala Ser Ser Gly Asp His Pro Thr Asp Thr
      370              375              380

Glu Met Lys Glu Glu Gln Lys Ser Asn Thr Ala Gly Ser Gln Ser Gln
385              390              395              400

Val Glu Thr Glu Ala
      405

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<210> 446

<211> 232

<212> PRT

<213> Homo sapiens

<400> 446

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Pro Leu Val Pro Ser Ser Gln Lys Ala Leu Leu Leu Glu Leu Lys Gly
  1              5              10              15

Leu Gln Glu Glu Pro Val Glu Gly Phe Arg Val Thr Leu Val Asp Glu
      20              25              30

Gly Asp Leu Tyr Asn Trp Glu Val Ala Ile Phe Gly Pro Pro Asn Thr
      35              40              45

Tyr Tyr Glu Gly Gly Tyr Phe Lys Ala Arg Leu Lys Phe Pro Ile Asp
      50              55              60

Tyr Pro Tyr Ser Pro Pro Ala Phe Arg Phe Leu Thr Lys Met Trp His
      65              70              75              80

Pro Asn Ile Tyr Glu Thr Gly Asp Val Cys Ile Ser Ile Leu His Pro
      85              90              95

Pro Val Asp Asp Pro Gln Ser Gly Glu Leu Pro Ser Glu Arg Trp Asn
      100             105             110

Pro Thr Gln Asn Val Arg Thr Ile Leu Leu Ser Val Ile Ser Leu Leu
      115             120             125

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395

Asn Glu Pro Asn Thr Phe Ser Pro Ala Asn Val Asp Ala Ser Val Met
 130 135 140

Tyr Arg Lys Trp Lys Glu Ser Lys Gly Lys Asp Arg Glu Tyr Thr Asp
 145 150 155 160

Ile Ile Arg Lys Gln Val Leu Gly Thr Arg Trp Thr Arg Val Asn Gly
 165 170 175

Val Lys Val Pro Thr Thr Leu Ala Glu Tyr Cys Val Lys Thr Lys Ala
 180 185 190

Pro Ala Pro Asp Glu Gly Ser Asp Leu Phe Tyr Asp Asp Tyr Tyr Glu
 195 200 205

Asp Gly Glu Val Glu Glu Glu Ala Asp Ser Cys Phe Gly Asp Asp Glu
 210 215 220

Asp Asp Ser Gly Thr Glu Glu Ser
 225 230

<210> 447

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447

Cys Ser Pro Pro Pro Pro Pro Ala Ala Ala Ala Xaa Ala Ala Ala Ala

396

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Ala Met Ala Gln Tyr Lys Gly Ala Ala Ser Glu Ala Gly Arg Ala Met | 20 | 25 | 30 |
| His Leu Met Lys Lys Arg Glu Lys Gln Arg Glu Gln Met Glu Gln Met | 35 | 40 | 45 |
| Lys Gln Arg Ile Xaa Glu Glu Asn Ile Met Lys Ser Asn Ile Asp Lys | 50 | 55 | 60 |
| Lys Phe Ser Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser | 65 | 70 | 75 |
| Thr Val Gly Leu Val Thr Leu Asn Asp Met Lys Ala Lys Gln Glu Ala | 85 | 90 | 95 |
| Leu Val Lys Glu Arg Glu Lys Gln Leu Ala Lys Lys Glu Gln Ser Lys | 100 | 105 | 110 |
| Glu Leu Gln Met Lys Leu Glu Lys Leu Arg Glu Lys Glu Arg Lys Lys | 115 | 120 | 125 |
| Glu Ala Lys Arg Lys Ile Ser Ser Leu Ser Phe Thr Leu Glu Glu Glu | 130 | 135 | 140 |
| Glu Glu Gly Gly Glu Glu Glu Glu Glu Ala Ala Met Tyr Glu Glu Glu | 145 | 150 | 155 |
| Met Glu Arg Glu Glu Ile Thr Thr Lys Lys Arg Lys Leu Gly Lys Asn | 165 | 170 | 175 |
| Pro Asp Val Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu Xaa Glu | 180 | 185 | 190 |
| Glu Asn Arg Leu Arg Glu Glu Leu Arg Gln Glu Trp Glu Ala Lys Gln | 195 | 200 | 205 |
| Glu Lys Ile Lys Ser Glu Glu Ile Glu Ile Thr Phe Ser Tyr Trp Asp | 210 | 215 | 220 |
| Gly Ser Gly His Arg Arg Thr Val Lys Met Arg Lys Gly Asn Thr Met | 225 | 230 | 235 |
| Gln Gln Phe Leu Gln Lys Ala Leu Glu Ile Leu Arg Lys Asp Phe Ser | 245 | 250 | 255 |
| Glu Leu Arg Ser Ala Gly Xaa Glu Gln Leu Met Tyr Ile Lys Glu Asp | 260 | 265 | 270 |
| Leu Ile Ile Pro His His His Ser Phe Tyr Asp Phe Ile Val Thr Lys | | | |

397

| | | |
|---|-----|---------|
| 275 | 280 | 285 |
| Ala Arg Gly Lys Ser Gly Pro Leu Phe Asn Phe Asp Val His Asp Asp | | |
| 290 | 295 | 300 |
| Val Arg Leu Leu Ser Asp Ala Thr Val Glu Lys Asp Glu Ser His Ala | | |
| 305 | 310 | 315 320 |
| Gly Lys Val Val Leu Arg Ser Trp Tyr Glu Lys Asn Lys His Ile Phe | | |
| | 325 | 330 335 |
| Pro Ala Ser Arg Trp Glu Pro Tyr Asp Pro Glu Lys Lys Trp Asp Lys | | |
| | 340 | 345 350 |
| Tyr Thr Ile Arg | | |
| 355 | | |

<210> 448

<211> 88

<212> PRT

<213> Homo sapiens

<400> 448

| |
|---|
| Lys Thr His Lys Met Cys Asp Ala Phe Val Gly Thr Trp Lys Leu Val |
| 1 5 10 15 |
| Ser Ser Glu Asn Phe Asp Asp Tyr Met Lys Glu Val Gly Val Gly Phe |
| 20 25 30 |
| Ala Thr Arg Lys Val Ala Gly Met Ala Lys Pro Asn Met Ile Ile Ser |
| 35 40 45 |
| Val Asn Gly Asp Val Ile Thr Ile Lys Ser Glu Ser Thr Phe Lys Asn |
| 50 55 60 |
| Thr Glu Ile Ser Phe Ile Leu Gly Gln Glu Phe Asp Glu Ala Leu Gln |
| 65 70 75 80 |
| Met Thr Gly Lys Ser Arg Ala Pro |
| 85 |

<210> 449

<211> 171

<212> PRT

<213> Homo sapiens

<220>

398

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 449

Leu Ile Leu Val Leu Met Phe Val Val Trp Met Lys Arg Arg Asp Lys
 1 5 10 15

Glu Arg Gln Ala Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg
 20 25 30

Asp Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln
 35 40 45

Asp Tyr Asp Leu Ser Gln Leu Gln Gln Pro Asp Thr Val Glu Pro Asp
 50 55 60

Ala Ile Lys Pro Val Gly Ile Xaa Arg Met Asp Glu Arg Pro Ile His
 65 70 75 80

Ala Glu Pro Gln Tyr Pro Val Arg Ser Ala Ala Pro His Pro Gly Asp
 85 90 95

Ile Gly Asp Phe Ile Asn Glu Gly Leu Lys Ala Ala Asp Asn Asp Pro
 100 105 110

Thr Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser
 115 120 125

Gly Ser Thr Xaa Gly Ser Leu Ser Ser Leu Asn Ser Ser Ser Ser Gly
 130 135 140

Gly Glu Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys
 145 150 155 160

Lys Leu Ala Asp Met Tyr Gly Gly Gly Asp Asp
 165 170

<210> 450

<211> 34

<212> PRT

<213> Homo sapiens

<400> 450

399

Lys Val Lys Ala Cys Cys Lys Asp Ile Phe Phe Leu Leu Leu Glu Gly
 1 5 10 15

Asn Thr Lys Arg Lys Ile Ser Phe Phe His Gly Ala Phe Asp Asn Phe
 20 25 30

Ser Leu

<210> 451

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 451

Arg Thr Leu His Pro Ala Thr Gly Pro Arg Ala Arg Pro Pro Arg Gly
 1 5 10 15

Trp Arg Arg Arg Leu Cys Ala Gln Gly Pro Ala Pro Asp Trp Asp Pro
 20 25 30

Gly Val Pro Pro Gly Leu Ala Ser Cys Gly Xaa Thr Val Trp Leu His
 35 40 45

Phe Ser Asp Pro Ser Leu Gly Arg Lys Val Lys Glu Thr Gly Pro Ala
 50 55 60

Ser Ala Phe Gly Leu Trp Phe Leu Asp Arg Val Leu Ser Pro Ser Pro
 65 70 75 80

Pro Ser Ser Pro Asn Leu Ser His Xaa Arg Pro Leu Pro Ala Ala Pro
 85 90 95

Ser Leu Leu Gly Ile Gly Ser Pro Glu Pro Pro Ser Pro Glu Pro Pro
 100 105 110

Thr Pro Leu Pro Gly Pro Cys Gly Cys Trp Ala Ser His Leu Lys Glu
 115 120 125

400

Gly Lys Val Val Gln Pro Glu Pro Val Glu Gln Cys Pro Val Trp Pro
 130 135 140

Pro Lys Pro Lys
 145

<210> 452

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 452

Asp Ser His Arg Pro Arg Ala Met Arg Ala Leu Trp Val Leu Gly Leu
 1 5 10 15

Ser Cys Xaa Leu Leu Thr Phe Gly Ser Val Arg Xaa Asp Asp Glu Val
 20 25 30

Asp Val Asp Gly Thr Val Glu Glu Asp Leu Gly Lys Ser Arg Glu Gly
 35 40 45

Ser Arg Thr Asp Asp Glu Val Val Gln Arg Glu Glu Glu Ala Ile Xaa
 50 55 60

401

Val Gly Trp Ile Lys Cys Ile Pro Asn Lys Arg Thr Xaa Glu Xaa Lys
 65 70 75 80

Ser Arg Lys

<210> 453

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Gly Trp Leu Pro Cys Gly Ser Ser Val Val Pro Ala Thr Pro Gly Ser
 1 5 10 15

Pro Pro Ser Arg Phe Trp Leu Leu Pro Ala Met Ala Leu Arg Val Leu
 20 25 30

Leu Leu Thr Ala Leu Thr Leu Cys His Gly Phe Asn Leu Asp Thr Glu
 35 40 45

Asn Ala Met Thr Phe Gln Glu Asn Ala Arg Gly Phe Gly Gln Ser Val
 50 55 60

Val Gln Leu Gln Gly Ser Arg Val Val Val Gly Ala Pro Gln Glu Ile
 65 70 75 80

Val Ala Ala Asn Gln Arg Gly Ser Leu Tyr Gln Cys Asp Tyr Ser Thr
 85 90 95

Gly Ser Cys Glu Pro Ile His Leu Gln Val Pro Val Glu Ala Val Asn
 100 105 110

Met Ser Leu Gly Leu Ser Leu Ala Ala Thr Thr Ser Pro Pro Gln Leu
 115 120 125

Leu Ala Cys Gly Pro Thr Val His Gln Thr Cys Ser Glu Asn Thr Tyr
 130 135 140

Val Lys Gly Leu Cys Phe Leu Phe Gly Ser Asn Leu Arg Gln Gln Pro
 145 150 155 160

Gln Lys Phe Pro Glu Ala Leu Arg Gly Cys Pro Gln Glu Asp Ser Asp
 165 170 175

Ile Ala Phe Leu Ile Asp Gly Ser Gly Ser Ile Ile Pro His Asp Phe
 180 185 190

Arg Arg Met Lys Glu Phe Val Ser Thr Val Met Glu Gln Leu Lys Lys
 195 200 205

Ser Lys Thr Leu Phe Ser Leu Met Gln Tyr Ser Glu Glu Phe Arg Ile
 210 215 220

His Phe Thr Ser Lys Ser Ser Arg Thr Xaa Leu Thr Gln Asp His Trp
 225 230 235 240

<210> 454

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 454

Lys Trp Cys Ser Trp Thr Leu Leu Lys Ile Trp Glu Val Thr Cys Thr
 1 5 10 15

Trp Lys Leu Pro Thr Leu Ala Lys Phe Ser Pro Tyr Leu Gly Gln Met
 20 25 30

Ile Asn Leu Arg Arg Leu Leu Leu Ser His Ile His Ala Ser Ser Tyr

403

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Ile Ser Pro Glu Lys Glu Glu Gln Tyr Ile Ala Gln Phe Thr Ser Gln | | |
| 50 | 55 | 60 |
| Phe Leu Ser Leu Gln Cys Leu Gln Leu Leu Tyr Val Asp Ser Leu Phe | | |
| 65 | 70 | 75 |
| Phe Leu Arg Gly Arg Leu Asp Gln Leu Leu Arg His Val Met Asn Pro | | |
| | 85 | 90 |
| Leu Glu Thr Leu Ser Ile Thr Asn Cys Arg Leu Ser Glu Gly Asp Val | | |
| 100 | 105 | 110 |
| Met His Leu Ser Gln Ser Pro Ser Val Ser Gln Leu Ser Val Leu Ser | | |
| 115 | 120 | 125 |
| Leu Ser Gly Val Met Leu Thr Asp Val Ser Pro Glu Pro Leu Gln Ala | | |
| 130 | 135 | 140 |
| Leu Leu Glu Arg Ala Ser Ala Thr Leu Gln Asp Leu Val Phe Asp Glu | | |
| 145 | 150 | 155 |
| Cys Gly Ile Thr Asp Asp Gln Leu Leu Ala Leu Leu Pro Ser Leu Ser | | |
| | 165 | 170 |
| His Cys Ser Gln Leu Thr Thr Leu Ser Phe Tyr Gly Asn Ser Ile Ser | | |
| 180 | 185 | 190 |
| Ile Ser Ala Leu Gln Ser Leu Leu Gln His Leu Ile Gly Xaa Ser Asn | | |
| 195 | 200 | 205 |
| Leu Thr His Val Leu Tyr Pro Val Pro Leu Glu Ser Tyr Glu Asp Ile | | |
| 210 | 215 | 220 |
| His Gly Xaa Leu Xaa Leu Glu Arg Leu Leu Ser Ala Cys Gln Xaa Gln | | |
| 225 | 230 | 235 |
| | | 240 |
| Gly Val Ala Val | | |

<210> 455

<211> 195

<212> PRT

<213> Homo sapiens

<400> 455

| |
|---|
| His Glu Gly Thr Gln Ser Phe Val Phe Gln Arg Glu Glu Ile Ala Gln |
| 1 5 10 15 |

404

Leu Ala Arg Gln Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg
 20 25 30
 Leu Ile Val Glu Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp
 35 40 45
 Glu Glu Leu Gln Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala
 50 55 60
 Met Cys Leu Leu His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly
 65 70 75 80
 Thr Ala Leu Gly Ser Arg Gly His Ser Gly Arg Tyr Trp Ala Glu Ile
 85 90 95
 Ser Asp Thr Ile Ile Ser Gly Thr Phe His Gln Trp Arg Glu Gly Thr
 100 105 110
 Thr Lys Ser Glu Val Phe Tyr Pro Gly Glu Thr Val Val His Gly Pro
 115 120 125
 Gly Glu Ala Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu
 130 135 140
 Tyr Gly Arg Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp
 145 150 155 160
 Thr Val Phe Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg
 165 170 175
 Ser Tyr Ala Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly
 180 185 190
 Gln Asp Pro
 195

<210> 456

<211> 36

<212> PRT

<213> Homo sapiens

<400> 456

Leu Val Thr Leu Leu His Ala Met Gln Ala Arg Asp Lys Thr Leu Gly
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Ile Ala Met Val Ile
 20 25 30

405

Glu Arg Leu Asn
35

<210> 457
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457
Val Thr Ala Ala Ala Ser Val Arg Ala Leu Gln Val Thr Val Ala Gly
1 5 10 15
Leu Leu Leu Val Phe Phe Leu Phe Gly Ala Pro Leu Asp Ser Leu Pro
20 25 30
Ser Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys
35 40 45
Cys Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly
50 55 60
Pro Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys
65 70 75 80
Tyr Ser Arg Leu Arg Xaa Leu Val Pro Gly Val Pro Arg Gly Thr Gln
85 90 95
Leu Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp
100 105 110
Leu Xaa Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro
115 120 125
His Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser
130 135 140
Asn Asp Lys Arg Ser Phe Cys His
145 150

<210> 458
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458
Leu Leu Asn Asn Phe Ile Phe Leu Glu Thr His Tyr Leu Trp Ala Cys
1 5 10 15

Xaa Thr Trp Thr Ile Trp Pro Asn Xaa Leu Asp Lys Lys Gly Xaa
20 25 30

<210> 459
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

407

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

```

Asp Pro Arg Val Arg Glu Thr Thr Val Lys Ala Arg Ala Arg Ser Gln
 1             5             10             15

His Ala Gly Gly Pro Glu Leu Gly Leu Ser Gln Xaa Tyr Val Thr Pro
      20             25             30

Arg Arg Pro Phe Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile
      35             40             45

Gly Glu Tyr Gly Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe
      50             55             60

Thr Leu Ala Lys Ile Arg Lys Xaa Ala Arg Glu Leu Leu Thr Leu Asp
      65             70             75             80

Glu Lys Asp Pro Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg
      85             90             95

Leu Val Arg Ile Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr
      100            105            110

Ile Leu Gly Leu Lys Met Arg Ile Leu Gly Glu Xaa Ser Ala Asp Pro
      115            120            125

Gly Xaa Ser Ser Trp Gly Trp Pro Ile His Pro Pro Cys Pro Val Leu
      130            135            140

Ile Arg Gln Ala Thr Gln Val Arg Lys Gln Val Val Asn
      145            150            155

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<210> 460

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Ile Trp Ala Pro Phe Pro His His Gln Gly Ser Gly Ser Gln Val Ser
1 5 10 15

Ser Tyr Gly Thr Gly Ala Leu Lys Ser His Ile Met Ala Ala Lys Ala
20 25 30

Val Ala Asn Thr Met Arg Thr Ser Leu Gly Pro Asn Gly Leu Asp Lys
35 40 45

Met Met Val Asp Lys Asp Gly Asp Val Thr Val Thr Asn Asp Gly Ala
50 55 60

Thr Ile Leu Ser Met Met Asp Val Asp His Gln Ile Ala Lys Leu Met
65 70 75 80

Val Glu Leu Ser Lys Ser Gln Asp Asp Glu Ile Gly Asp Gly Asp His
85 90 95

Gly Gly Gly Cys Pro Gly Arg Arg Pro Ala Gly Arg Arg Pro Ser Ser
100 105 110

Cys Trp Thr Ala Ala Phe Xaa Arg Ser Gly Ser Pro Thr Val Thr Ser
115 120 125

Arg Xaa Pro Ala Leu Ala Xaa Glu
130 135

<210> 461

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

409

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (382)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (383)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (386)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (387)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 461

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Gly | Asn | Trp | Trp | Val | Pro | Arg | Ala | Gly | Xaa | Asn | Trp | Xaa | Arg | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Phe | Leu | Phe | Val | Asp | Arg | Cys | Asp | Arg | His | Leu | Thr | Met | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Val | Lys | Thr | Leu | Thr | Gly | Lys | Thr | Ile | Thr | Leu | Glu | Val | Glu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Asp | Thr | Ile | Glu | Asn | Val | Lys | Ala | Lys | Ile | Gln | Asp | Lys | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Pro | Asp | Gln | Gln | Arg | Leu | Ile | Phe | Ala | Gly | Lys | Gln | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Gly | Arg | Thr | Leu | Ser | Asp | Tyr | Asn | Ile | Gln | Lys | Glu | Ser | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Leu | Val | Leu | Arg | Leu | Arg | Gly | Gly | Met | Gln | Ile | Phe | Val | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Thr | Gly | Lys | Thr | Ile | Thr | Leu | Glu | Val | Glu | Pro | Ser | Asp | Thr |
| | | 115 | | | | | 120 | | | | | 125 | | | |

410

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Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro
 130                      135                      140

Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg
145                      150                      155                      160

Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val
                      165                      170                      175

Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly
                      180                      185                      190

Lys Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val
                      195                      200                      205

Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg
210                      215                      220

Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp
225                      230                      235                      240

Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg
                      245                      250                      255

Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr
260                      265                      270

Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile
275                      280                      285

Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala
290                      295                      300

Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln
305                      310                      315                      320

Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln
                      325                      330                      335

Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
340                      345                      350

Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Arg Ser Arg Gln Gly Arg
355                      360                      365

His Pro Pro Asp Gln Gln Xaa Leu Ile Leu Leu Gly Lys Xaa Xaa Lys
370                      375                      380

Trp Xaa Xaa Pro Phe Asp
385                      390

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411

<210> 462
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 462
 Cys Ser Thr Val Arg Ile Pro Gly Ser Thr His Ala Ser Gly Leu Ser
 1 5 10 15
 Arg Arg Ala Ser Pro Val Tyr Leu Ala Ser Met Ser Gly Arg Gly Lys
 20 25 30
 Thr Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg Ala
 35 40 45
 Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys Gly
 50 55 60
 His Tyr Ala Glu Arg Val Gly Ala Gly Xaa Pro Val Tyr Leu Ala Ala
 65 70 75 80
 Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn Ala
 85 90 95
 Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln Leu
 100 105 110
 Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Gly Val Thr
 115 120 125

412

Ile Ala Gln Gly Arg Arg Xaa Ala Gln His Pro Gly Arg Xaa Cys Cys
 130 135 140

Pro Arg Arg Pro Ala Pro Pro Trp Gly Arg Xaa Pro Phe Gly Gly Gln
 145 150 155 160

Glu Arg Ala Thr Lys Ala Ser Gln Gly Val Leu
 165 170

<210> 463

<211> 433

<212> PRT

<213> Homo sapiens

<400> 463

Arg Val Arg Ala Pro Pro Arg Pro Pro Leu Gly Pro Ser Arg Pro Ser
 1 5 10 15

His His Val His Pro Leu Gln Leu Pro Gly Ile Arg Glu Val Thr Ile
 20 25 30

Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala Asp Pro Ser Leu
 35 40 45

Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys Thr Leu Asn Asn
 50 55 60

Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn
 65 70 75 80

Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu Gln Lys Ser Ala
 85 90 95

Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly Leu
 100 105 110

Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu Ala
 115 120 125

Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe Lys Asn Lys Tyr
 130 135 140

Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val Val
 145 150 155 160

Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys Val Glu Leu Glu
 165 170 175

413

Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr Leu
 180 185 190
 Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr Ser
 195 200 205
 Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile
 210 215 220
 Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser Arg
 225 230 235 240
 Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu Thr Leu Gln Ala
 245 250 255
 Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr Arg Asn Glu Ile
 260 265 270
 Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala Glu Ile Asp Asn
 275 280 285
 Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile Ala Glu Ala Glu
 290 295 300
 Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala Lys Gln Glu Glu
 305 310 315 320
 Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu
 325 330 335
 Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile Glu
 340 345 350
 Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Ala
 355 360 365
 Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met Asn Ser Thr Gly
 370 375 380
 Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu Gly Gly Thr Met
 385 390 395 400
 Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly Pro Gly Leu Leu
 405 410 415
 Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg Arg Ser Ala Arg
 420 425 430

Asp

414

<210> 464
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464
 Gly Ser Gly Cys Val Phe Ala Ile Leu Gly Arg Arg Cys Ser Arg Pro
 1 5 10 15
 Trp Arg Ile Trp Pro Gly Glu Pro Leu Gln Arg Ala Pro Pro Ala Ala
 20 25 30
 Gly Thr Arg Trp Pro His Gly His Arg Ser Ser Pro Val Gly Thr Pro
 35 40 45
 Gly Xaa Ala Pro Asn Val Pro Ala Ile Trp Gln Gln Pro Leu Trp Xaa
 50 55 60
 Glu Tyr Ser Cys Glu Tyr Gly Ser Met Lys Phe Tyr Ala Leu Cys Gly

415

65 70 75 80
 Phe Gly Gly Val Leu Ser Cys Gly Leu Thr His Thr Ala Val Val Pro
 85 90 95
 Leu Asp Leu Val Lys Cys Arg Met Gln Val Asp Pro Gln Xaa Tyr Lys
 100 105 110
 Gly Xaa Xaa Asn Xaa Ile Leu Ile Asn
 115 120

<210> 465
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 465
 Arg Ile Pro Ala Pro Ala Ser Ser Arg His Ser Gly Gly Arg Cys Ala
 1 5 10 15
 Ala Gly Pro Arg Gly Pro Pro Ala Thr Ala Ser Arg Ala Leu Arg Ala
 20 25 30
 Val His Arg Pro Leu Asp Ala Ala Arg Gly Arg Thr Gly Ser Thr Ser
 35 40 45
 His Leu Cys Ser Ser Ser Tyr Thr Ile Gly Cys Leu Leu Trp Phe Ser
 50 55 60
 Gln Lys Ala Met
 65

<210> 466
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 466
 Ala Thr Ile Leu Glu Arg Glu Ala Glu Gln Ser Arg Leu Gly Ala Thr
 1 5 10 15
 Glu Arg Ala Ala Ala Ala Ala Met Asn Pro Glu Tyr Asp Tyr Leu Phe
 20 25 30
 Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Ser Cys Leu Leu
 35 40 45

416

```

Leu Arg Phe Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile
  50                      55                      60

Gly Val Asp Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile
  65                      70                      75                      80

Lys Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile
                      85                      90                      95

Thr Ser Ser Tyr Tyr Arg Gly Ala His Gly Ile Ile Val Val Tyr Asp
      100                      105                      110

Val Thr Asp Gln Glu Ser Tyr Ala Asn Val Lys Gln Trp Leu Gln Glu
      115                      120                      125

Ile Asp Arg Tyr Ala Ser Glu Asn Val Asn Lys Leu Leu Val Gly Asn
      130                      135                      140

Lys Ser Asp Leu Thr Thr Lys Lys Val Val Asp Asn Thr Thr Ala Lys
      145                      150                      155                      160

Glu Phe Ala Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys
                      165                      170                      175

Asn Ala Thr Asn Val Glu Gln Ala Phe Met Thr Met Ala Ala Glu Ile
      180                      185                      190

Lys Lys Arg Met Gly Pro Gly Ala Ala Ser Gly Gly Glu Arg Pro Asn
      195                      200                      205

Leu Lys Ile Asp Ser Thr Pro Val Lys Pro Ala Gly Gly Gly Cys Cys
      210                      215                      220

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<210> 467

<211> 76

<212> PRT

<213> Homo sapiens

<400> 467

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Ser Glu Ala Pro Gly Glu Ser Val Gly Thr Thr Pro Glu Ala Gln Met
  1                      5                      10                      15

Lys Thr Gly Pro Phe Ala Glu His Ser Asn Gln Leu Trp Asn Ile Ser
      20                      25                      30

Ala Val Pro Ser Trp Ser Lys Val Asn Gln Gly Leu Ile Arg Met Tyr

```

417

35 40 45
 Lys Ala Glu Cys Leu Glu Lys Phe Pro Val Ile Gln His Phe Lys Phe
 50 55 60

Gly Ser Leu Leu Pro Ile His Pro Val Thr Ser Gly
 65 70 75

<210> 468

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 468

Ser Leu Ala Arg Thr Gly Pro Arg Ser Leu Ala Arg Pro Cys Arg Arg
 1 5 10 15

Arg Pro Ala His Arg His Pro Leu Gln Pro Cys Pro Pro Gly Xaa Cys
 20 25 30

```
<210> 469
<211> 459
<212> PRT
<213> Homo sapiens
```

<400> 469

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Leu | Ser | Ser | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Pro | Val | Cys | Leu | Pro | Pro | Ala | Ala | Ala | Thr | Met | Thr | Thr | Ser | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Arg | Gln | Phe | Thr | Ser | Ser | Ser | Ser | Ile | Lys | Gly | Ser | Ser | Gly | Leu | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gly | Gly | Ser | Ser | Arg | Thr | Ser | Cys | Arg | Leu | Ser | Gly | Gly | Leu | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Cys | Arg | Leu | Gly | Ser | Ala | Gly | Gly | Leu | Gly | Ser | Thr | Leu | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Gly | Ser | Ser | Tyr | Ser | Ser | Cys | Tyr | Ser | Phe | Gly | Ser | Gly | Gly | Gly | Tyr |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Gly | Ser | Ser | Phe | Gly | Gly | Val | Asp | Gly | Leu | Leu | Ala | Gly | Gly | Glu | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ala | Thr | Met | Gln | Asn | Leu | Asn | Asp | Arg | Leu | Ala | Ser | Tyr | Leu | Asp | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Val | Arg | Ala | Leu | Glu | Glu | Ala | Asn | Thr | Glu | Leu | Glu | Val | Lys | Ile | Arg |
| 130 | | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Trp | Tyr | Gln | Arg | Gln | Ala | Pro | Gly | Pro | Ala | Arg | Asp | Tyr | Ser | Gln | 145 | 150 | 155 | 160 |
| Tyr | Tyr | Arg | Thr | Ile | Glu | Glu | Leu | Gln | Asn | Lys | Ile | Leu | Thr | Ala | Thr | 165 | 170 | 175 | |
| Val | Asp | Asn | Ala | Asn | Ile | Leu | Leu | Gln | Ile | Asp | Asn | Ala | Arg | Leu | Ala | 180 | 185 | 190 | |
| Ala | Asp | Asp | Phe | Arg | Thr | Lys | Phe | Glu | Thr | Glu | Gln | Ala | Leu | Arg | Leu | 195 | 200 | 205 | |
| Ser | Val | Glu | Ala | Asp | Ile | Asn | Gly | Leu | Arg | Arg | Val | Leu | Asp | Glu | Leu | 210 | 215 | 220 | |
| Thr | Leu | Ala | Arg | Ala | Asp | Leu | Glu | Met | Gln | Ile | Glu | Asn | Leu | Lys | Glu | 225 | 230 | 235 | 240 |
| Glu | Leu | Ala | Tyr | Leu | Lys | Lys | Asn | His | Glu | Glu | Glu | Met | Asn | Ala | Leu | 245 | 250 | 255 | |
| Arg | Gly | Gln | Val | Gly | Gly | Glu | Ile | Asn | Val | Glu | Met | Asp | Ala | Ala | Pro | 260 | 265 | 270 | |
| Gly | Val | Asp | Leu | Ser | Arg | Ile | Leu | Asn | Glu | Met | Arg | Asp | Gln | Tyr | Glu | 275 | 280 | 285 | |
| Lys | Met | Ala | Glu | Lys | Asn | Arg | Lys | Asp | Ala | Glu | Asp | Trp | Phe | Phe | Ser | 290 | 295 | 300 | |
| Lys | Thr | Glu | Glu | Leu | Asn | Arg | Glu | Val | Ala | Thr | Asn | Ser | Glu | Leu | Val | 305 | 310 | 315 | 320 |
| Gln | Ser | Gly | Lys | Ser | Glu | Ile | Ser | Glu | Leu | Arg | Arg | Thr | Met | Gln | Ala | 325 | 330 | 335 | |
| Leu | Glu | Ile | Glu | Leu | Gln | Ser | Gln | Leu | Ser | Met | Lys | Ala | Ser | Leu | Glu | 340 | 345 | 350 | |
| Gly | Asn | Leu | Ala | Glu | Thr | Glu | Asn | Arg | Tyr | Cys | Val | Gln | Leu | Ser | Gln | 355 | 360 | 365 | |
| Ile | Gln | Gly | Leu | Ile | Gly | Ser | Val | Glu | Glu | Gln | Leu | Ala | Gln | Leu | Arg | 370 | 375 | 380 | |
| Cys | Glu | Met | Glu | Gln | Gln | Asn | Gln | Glu | Tyr | Lys | Ile | Leu | Leu | Asp | Val | 385 | 390 | 395 | 400 |
| Lys | Thr | Arg | Leu | Glu | Gln | Glu | Ile | Ala | Thr | Tyr | Arg | Arg | Leu | Leu | Glu | 405 | 410 | 415 | |

420

Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys Glu Pro Val Thr Thr
 420 425 430

Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln Asp Gly Lys Val Ile
 435 440 445

Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg
 450 455

<210> 470

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Pro Pro Pro Pro Pro Pro Glu Leu Cys Ser Met Ala Ser Arg Arg
 1 5 10 15

Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile Ile
 20 25 30

Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly
 35 40 45

Val Trp Gly Lys Leu Thr Leu Gly Thr Tyr Ile Ser Leu Ile Ala Glu
 50 55 60

Asn Ser Thr Asn Ala Pro Tyr Val Leu Ile Gly Thr Gly Thr Thr Ile
 65 70 75 80

Val Val Phe Gly Leu Phe Gly Cys Phe Ala Thr Cys Arg Gly Ser Pro
 85 90 95

Trp Met Leu Lys Leu Tyr Ala Met Phe Leu Ser Leu Val Phe Leu Ala
 100 105 110

Glu Leu Val Ala Gly Ile Ser Gly Phe Val Phe Arg His Glu Ile Lys
 115 120 125

Asp Thr Phe Leu Arg Thr Tyr Thr Asp Ala Met Gln Thr Tyr Asn Gly
 130 135 140

Asn Asp Glu Arg Ser Arg Ala Val Asp His Val Gln Arg Xaa
 145 150 155

421

<210> 471

<211> 59

<212> PRT

<213> Homo sapiens

<400> 471

Val Leu Phe Phe Tyr Glu Cys Pro Asn Leu Cys Phe Pro Leu Pro Ser
1 5 10 15

Gln Thr Val Trp Pro Val Glu Ser Val Trp Phe Val Phe Ile Ser Pro
20 25 30

Ser Phe Leu Glu Gln Gly Leu Arg Pro Cys His Ile Ser Tyr Ala Leu
35 40 45

His Pro Arg Leu Phe Trp Thr Leu Lys Val Asp
50 55

<210> 472

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472

Asp Pro Asp Glu Val Phe Pro Val Cys Leu Pro Leu Thr Gly Asp Ala
1 5 10 15

422

Gly Glu Asp Gly Gly Lys Met Leu His Leu Pro Glu Trp Pro Glu Gln
 20 25 30

Pro Pro Gly Gly Pro Ala Ala Leu Gln Val Arg Gly Ala Glu Asp Xaa
 35 40 45

Xaa Leu Ser Phe Xaa Asp Cys Glu Ser Leu Gln Ala Val Phe Asp Pro
 50 55 60

Ala Ser Cys Pro His Met Leu Arg Ala Pro Ala Arg Val Leu Gly Glu
 65 70 75 80

Ala Val Leu Pro Phe Ser Pro Ala Leu Ala Glu Val Thr Leu Gly Ile
 85 90 95

Gly Arg Gly Ala Gly Ser Ser Trp Xaa Tyr His Glu Glu Glu Ala Asp
 100 105 110

Ser Thr Ala Lys Ala Met Val Thr Glu Met Cys Leu Gly Glu Glu Asp
 115 120 125

Phe Gln Gln Leu Gln Ala Gln Glu Gly Val Ala Ile Thr Phe Cys Leu
 130 135 140

Lys Glu Phe Arg Gly Leu Leu Ser Phe Ala Glu Ser Ala Asn Leu Asn
 145 150 155 160

Leu Ser Ile His Phe Asp Ala Pro Gly Arg Pro Ala Ile Phe Thr Ile
 165 170 175

Lys Asp Ser Leu Leu Asp Gly His Phe Val Leu Ala Thr Leu Ser Asp
 180 185 190

Thr Asp Ser His Ser Gln Asp Leu Gly Ser Pro Glu Arg His Gln Pro
 195 200 205

Val Pro Gln Leu Gln Ala His Ser Thr Pro His Pro Asp Asp Phe Ala
 210 215 220

Asn Asp Asp Ile Asp Ser Tyr Met Ile Ala Met Glu Thr Thr Ile Gly
 225 230 235 240

Asn Glu Gly Ser Arg Val Leu Pro Ser Ile Ser Leu Ser Pro Gly Pro
 245 250 255

Gln Pro Pro Lys Ser Pro Gly Pro His Ser Glu Glu Glu Asp Glu Ala
 260 265 270

Glu Pro Ser Thr Val Pro Gly Thr Pro Pro Pro Lys Lys Phe Arg Ser
 275 280 285

423

Leu Phe Phe Gly Ser Ile Leu Ala Pro Val Arg Ser Pro Gln Gly Pro
 290 295 300

Ser Leu Cys Trp Arg Lys Thr Val Arg Val Lys Ala Glu Pro Arg Thr
 305 310 315 320

<210> 473

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Pro Pro Cys Ala Val Pro Gly Pro Arg Leu Ser Pro Lys Leu Arg Thr
 1 5 10 15

Pro Ser Asn Ser Arg Glu Ser Xaa Ile Cys Val Ser Gly Arg Ala Glu
 20 25 30

Ala Leu Thr Phe Arg His Gly Ala Glu Gly Ser Asp Arg Arg Arg Gln
 35 40 45

Arg Arg Glu Gly Val Leu Gly Pro Ala Leu Leu Cys Arg Pro Trp Glu
 50 55 60

Val Leu Gly Ala His Glu Val Pro Ser Arg Asn Ile Phe Ser Glu Gln

424

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | 70 | | 75 | | 80 | | | | | | | | | |
| Thr | Ile | Pro | Pro | Ser | Ala | Lys | Tyr | Gly | Gly | Arg | His | Thr | Val | Thr | Met |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ile | Pro | Gly | Asp | Gly | Ile | Gly | Pro | Glu | Leu | Met | Leu | His | Val | Lys | Ser |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Val | Phe | Arg | His | Ala | Cys | Val | Pro | Val | Asp | Phe | Glu | Glu | Val | His | Val |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ser | Ser | Asn | Ala | Asp | Glu | Glu | Asp | Ile | Arg | Asn | Ala | Ile | Met | Ala | Ile |
| | | 130 | | | | | 135 | | | | | 140 | | | |
| Arg | Arg | Asn | Arg | Val | Ala | Leu | Lys | Gly | Asn | Ile | Glu | Thr | Asn | His | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Pro | Pro | Ser | His | Lys | Ser | Arg | Asn | Asn | Ile | Leu | Arg | Thr | Ser | Leu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Asp | Leu | Tyr | Ala | Asn | Val | Ile | His | Cys | Lys | Ser | Leu | Pro | Gly | Val | Val |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Thr | Arg | His | Lys | Asp | Ile | Asp | Ile | Leu | Ile | Val | Arg | Glu | Asn | Thr | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Gly | Glu | Tyr | Ser | Ser | Leu | Glu | His | Glu | Ser | Val | Ala | Gly | Val | Val | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ser | Leu | Lys | Ile | Ile | Thr | Lys | Ala | Lys | Ser | Leu | Arg | Ile | Ala | Glu | Tyr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ala | Phe | Lys | Leu | Ala | Gln | Glu | Ser | Gly | Arg | Lys | Lys | Val | Thr | Ala | Val |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| His | Lys | Ala | Asn | Ile | Met | Lys | Leu | Gly | Asp | Gly | Leu | Phe | Leu | Gln | Cys |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Cys | Arg | Glu | Val | Ala | Ala | Arg | Tyr | Pro | Gln | Xaa | Thr | Phe | Glu | Asn | Met |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ile | Val | Asp | Asn | Thr | Thr | Met | Gln | Leu | Val | Xaa | Arg | Pro | Gln | Gln | Phe |
| | | 290 | | | | 295 | | | | | 300 | | | | |
| Asp | Val | Met | Val | Met | Pro | Asn | Leu | Tyr | Gly | Asn | Ile | Val | Lys | Gln | Cys |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Leu | Arg | Gly | Xaa | Gly | Arg | Gly | Pro | Lys | Leu | Val | | | | | |
| | | | | 325 | | | | | 330 | | | | | | |

425

<210> 474

<211> 30

<212> PRT

<213> Homo sapiens

<400> 474

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Ile | Ser | Thr | Lys | Asn | Thr | Lys | Ile | Ser | Gln | Ala | Arg | Trp | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Val | Val | Pro | Ala | Thr | Arg | Glu | Ala | Asp | Ala | Glu | Glu |
| | | 20 | | | | | | 25 | | | | | 30 |

<210> 475

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Phe | Ser | Leu | Ser | Pro | Val | Glu | Thr | Ile | Tyr | Thr | Ile | Leu | Cys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Val | Tyr | Thr | Leu | Pro | Ile | Cys | Ile | His | Ile | Tyr | Ile | Val | Tyr |
| | | 20 | | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Tyr | Met | Tyr | Arg | Cys | Val | Tyr | Val | His | Ile | Tyr | Thr | His | Ala |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Asn | Lys | Ile | Arg | Cys | Ser | Leu | Gln | Ile | Gln | Met | Leu | Ile | Thr | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Ala | Thr | Gln | Thr | Ala | Ala | Glu | Glu | Thr | Arg | Leu | Asp | Ser | Cys |
| | 65 | | | | | 70 | | | | | 75 | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Ser | Gln | Lys | Ile | Lys | Thr | Ala | Thr | Cys | Ser | Asp | Phe | Gly | His |
| | | | 85 | | | | | | 90 | | | | | | 95 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Cys | Met | Phe | Ile | Lys | Asn | Gly | Phe | Val | Thr | Arg | Lys | Xaa | Arg | Thr |
| | | 100 | | | | | | 105 | | | | | | | 110 |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Ser | Glu | Lys | Gly | Arg | Trp | Gly | Glu | Pro | Ser |
| | | 115 | | | | | | 120 | | | |

426

<210> 476

<211> 64

<212> PRT

<213> Homo sapiens

<400> 476

Asn Gly Tyr Leu Val Phe Pro Arg Lys Asn Ser Phe Leu Leu Ile Phe
 1 5 10 15

Gly Leu Phe Val Tyr Leu Glu Thr Asn Leu Asp Ser Leu Pro Leu Val
 20 25 30

Asp Thr His Ser Lys Arg Thr Leu Leu Ile Lys Thr Val Glu Thr Arg
 35 40 45

Asp Gly Gln Val Ile Asn Glu Thr Ser Gln His His Asp Asp Leu Glu
 50 55 60

<210> 477

<211> 107

<212> PRT

<213> Homo sapiens

<400> 477

Val Leu Thr Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro
 1 5 10 15

Asp Met Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro
 20 25 30

Gln Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly
 35 40 45

Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu Arg
 50 55 60

Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val Ser His
 65 70 75 80

Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile Ala Asp Arg
 85 90 95

Leu Ala Pro Leu Pro Cys Pro Lys Thr Gly Gly
 100 105

```
<220>  
<221> SITE  
<222> (281)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

Arg Glu Leu Gly Gly Thr Leu Leu Ser Ala Ile Glu Val Glu Gly Ala
1 5 10 15

Lys Met Gln Ser Asn Lys Thr Phe Asn Leu Glu Lys Gln Asn His Thr
20 25 30

Pro Arg Lys His His Gln His His His Gln Gln Gln His His Gln Gln
35 40 45

Gln Gln Gln Gln Pro Pro Pro Pro Pro Ile Pro Ala Asn Gly Gln Gln
50 55 60

Ala Ser Ser Gln Asn Glu Gly Leu Thr Ile Asp Leu Lys Asn Phe Arg
65 70 75 80

Lys Pro Gly Glu Lys Thr Phe Thr Gln Arg Ser Arg Leu Phe Val Gly
85 90 95

Asn Leu Pro Pro Asp Ile Thr Glu Glu Glu Met Arg Lys Leu Phe Glu
100 105 110

Lys Tyr Gly Lys Ala Gly Glu Val Phe Ile His Lys Asp Lys Gly Phe
115 120 125

Gly Phe Ile Arg Leu Glu Thr Arg Thr Leu Ala Glu Ile Ala Lys Val
130 135 140

Glu Leu Asp Asn Met Pro Leu Arg Gly Lys Gln Leu Arg Val Arg Phe
145 150 155 160

Ala Cys His Ser Ala Ser Leu Thr Val Arg Asn Leu Pro Gln Tyr Val
165 170 175

Ser Asn Glu Leu Leu Glu Glu Ala Phe Ser Val Phe Gly Gln Val Glu
180 185 190

Arg Ala Val Val Ile Val Asp Asp Arg Gly Arg Pro Ser Gly Lys Gly
195 200 205

428

Ile Val Glu Phe Ser Gly Lys Pro Ala Ala Arg Lys Ala Leu Asp Arg
 210 215 220

Cys Ser Glu Gly Ser Phe Leu Leu Thr Thr Phe Pro Arg Pro Val Thr
 225 230 235 240

Val Glu Pro Met Asp Gln Leu Asp Asp Glu Glu Gly Leu Pro Glu Lys
 245 250 255

Leu Val Ile Lys Asn Gln Gln Phe His Lys Glu Arg Glu Gln Pro Pro
 260 265 270

Arg Phe Ala Gln Pro Gly Ser Phe Xaa Val
 275 280

<210> 479

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (285)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 479

Ala Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Val Cys
 1 5 10 15

Gly Pro Leu Ser Ala Pro Arg Gly Ser Arg Arg Pro Thr Val Pro Gly
 20 25 30

Thr Pro Ala Cys Leu Ala Arg Pro Ala Ala Gln Gly Phe Ser Ala Ala

429

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Leu Pro Val Arg Trp Thr Gly Arg Arg Ala Gly Pro Ser Arg Pro Val | | |
| 50 | 55 | 60 |
| Pro Ile Gly Thr Pro Ser Arg Ala Ala Asp Pro Ser Gln Gly Glu Met | | |
| 65 | 70 | 75 |
| Ser Ala Asp Ala Ala Ala Gly Ala Pro Leu Pro Arg Leu Cys Cys Leu | | |
| | 85 | 90 |
| Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu His Gly Glu Lys Gly | | |
| 100 | 105 | 110 |
| Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro Gly Ser Pro Ala Glu | | |
| 115 | 120 | 125 |
| Lys Ala Gly Leu Leu Ala Gly Asp Arg Leu Val Glu Val Asn Gly Glu | | |
| 130 | 135 | 140 |
| Asn Val Glu Lys Glu Thr His Gln Gln Val Val Ser Arg Ile Arg Ala | | |
| 145 | 150 | 155 |
| Ala Leu Asn Ala Val Arg Leu Leu Val Val Asp Pro Glu Thr Asp Glu | | |
| | 165 | 170 |
| Gln Leu Gln Lys Leu Gly Val Gln Val Arg Glu Glu Leu Leu Arg Ala | | |
| 180 | 185 | 190 |
| Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro Ala Ala Ala Xaa Val Gln | | |
| 195 | 200 | 205 |
| Gly Ala Gly Asn Glu Asn Xaa Pro Arg Xaa Ala Asp Lys Ser His Pro | | |
| 210 | 215 | 220 |
| Glu Gln Arg Glu Leu Arg Pro Arg Leu Cys Thr Met Lys Lys Gly Pro | | |
| 225 | 230 | 235 |
| Ser Gly Tyr Gly Phe Asn Leu His Ser Asp Lys Ser Lys Pro Gly Gln | | |
| | 245 | 250 |
| Phe Ile Arg Ser Val Asp Pro Asp Ser Pro Ala Glu Ala Ser Gly Leu | | |
| 260 | 265 | 270 |
| Arg Ala Gln Asp Arg Ile Val Glu Val Met Leu Leu Xaa Ser Leu Pro | | |
| 275 | 280 | 285 |
| Ile | | |

430

<210> 480

<211> 44

<212> PRT

<213> Homo sapiens

<400> 480

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Thr | His | Ala | Ser | Gly | Arg | Asn | Glu | Gly | Pro | Pro | Ala | Lys | Thr |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |
| Lys | Ser | Trp | Val | Gly | Pro | Thr | Leu | His | Phe | His | Arg | Lys | Ser | Glu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Val | Gly | Leu | Lys | Val | Leu | Cys | Cys | Phe | Arg | Leu | | | | |
| | | | 35 | | | | | 40 | | | | | | | |

<210> 481

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Xaa | His | Xaa | Arg | Lys | Xaa | Xaa | Xaa | Thr | Val | Arg | Ser | Asp | Ser |
| 1 | | | | | 5 | | | | | 10 | | | | | 15 |

431

Arg Val Asp Pro Arg Ser Asp Asp Phe Thr Pro Leu Glu Ile Leu Trp
 20 25 30
 Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe
 35 40 45
 Met Val Ser Lys Thr Gly Glu Ala Glu Thr Ile Thr Ser His Tyr Leu
 50 55 60
 Phe Ala Leu Gly Val Tyr Arg Thr Leu Tyr Leu Phe Asn Trp Ile Trp
 65 70 75 80
 Arg Tyr His Phe Glu Gly Phe Phe Asp Leu Ile Ala Ile Val Ala Gly
 85 90 95
 Leu Val Gln Thr Val Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Thr
 100 105 110
 Lys Val Leu Lys Gly Lys Lys Leu Ser Leu Pro Ala
 115 120

<210> 482

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Cys Ser Ser Arg Gly Ala His His Ser His Cys Asp Arg Leu Pro His

432

```

      1             5             10             15
Ser Pro Trp Pro Gly Leu Arg Glu Val Glu Leu Leu Ala Ser Val His
      20             25             30
Thr Glu Gln Met Glu Glu Glu Leu Ala Leu Gly Pro Arg Gly Gln Gly
      35             40             45
Gly Ala Ser Leu Ala Gly Arg Asp Gly Arg Ser Ala Gly Ala Gly Ser
      50             55             60
Tyr Gly Ala Leu Ala Asn Ser Ala Trp Gly Gly Pro Arg Lys Val Ala
      65             70             75             80
Ser Ala Ser Ala Ala Ala Ser Thr Leu Ser Glu Pro Pro Arg Arg Thr
      85             90             95
Gln Glu Ser Arg Thr Arg Thr Arg Ala Leu Gly Leu Pro Thr Leu Pro
      100            105            110
Met Glu Lys Leu Ala Ala Ser Asn Arg Xaa Pro Xaa Gly Leu Xaa Gly
      115            120            125
Pro Gly Xaa
      130

```

<210> 483

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 483

```

Lys Lys Pro Pro Ile Thr His Pro Ser Thr Pro Ala Glu Glu Thr Tyr .
  1             5             10             15
Asn Leu Gly Arg Gln Val Leu Pro Leu Ser Ala Val Thr Tyr Phe Gln
      20             25             30
Lys Ser Gly Pro Gly Leu Leu Pro Ala Pro Ala Thr Gln Ser Ala Ser

```

433

| 35 | 40 | 45 |
|---|---------|---------|
| Val Ala Gly Thr Leu Gln Asn Ser Leu Cys Ser Gln Val Thr Lys Lys | | |
| 50 | 55 | 60 |
| Lys Arg Ala Asn Met Leu Val Leu Leu Ala Gly Ile Phe Val Val His | | |
| 65 | 70 | 75 80 |
| Ile Ala Thr Val Ile Met Leu Phe Val Ser Thr Ile Ala Asn Val Trp | | |
| | 85 90 | 95 |
| Leu Val Ser Asn Thr Val Asp Ala Ser Val Gly Leu Trp Lys Asn Cys | | |
| 100 | 105 | 110 |
| Thr Asn Ile Ser Cys Ser Asp Ser Leu Ser Tyr Ala Ser Glu Asp Ala | | |
| 115 | 120 | 125 |
| Leu Lys Thr Val Gln Ala Phe Met Ile Leu Ser Ile Ile Phe Cys Val | | |
| 130 | 135 | 140 |
| Ile Ala Leu Leu Val Phe Val Phe Gln Leu Phe Thr Met Glu Lys Gly | | |
| 145 | 150 | 155 160 |
| Asn Arg Phe Phe Leu Ser Gly Xaa Thr Thr Leu Val Cys Xaa Leu Cys | | |
| | 165 170 | 175 |
| Ile Leu Val Gly Cys Pro Ser Thr Leu Val Ile Met Arg Ile Val Met | | |
| 180 | 185 | 190 |
| Glu Arg Ile Cys Thr Thr Ala Ile Pro Thr Ser Trp Ala Gly Ser Ala | | |
| 195 | 200 | 205 |
| Ser Ala Ser Ala Ser Ser Ser Ala Phe Ser Ile Trp Ser | | |
| 210 | 215 | 220 |

<210> 484

<211> 382

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

434

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | Leu | Trp | Thr | Leu | Val | Ser | Asn | Pro | Asp | Thr | Asp | Ala | Leu | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Trp | Ser | Pro | Ser | Xaa | Asn | Ser | Phe | His | Val | Phe | Asp | Gln | Gly | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Lys | Glu | Val | Leu | Pro | Lys | Tyr | Phe | Lys | His | Asn | Asn | Met | Ala |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Val | Arg | Gln | Xaa | Asn | Met | Tyr | Gly | Phe | Arg | Lys | Val | Val | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Gln | Gly | Xaa | Leu | Val | Lys | Pro | Glu | Arg | Asp | Asp | Thr | Glu | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | His | Pro | Cys | Phe | Leu | Arg | Gly | Gln | Glu | Gln | Leu | Leu | Glu | Asn | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Lys | Val | Thr | Ser | Val | Ser | Thr | Leu | Lys | Ser | Glu | Asp | Ile | Lys |
| | | | 100 | | | | | 105 | | | | | | 110 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Gln | Asp | Ser | Val | Thr | Lys | Leu | Leu | Thr | Asp | Val | Gln | Leu | Met |
| | | 115 | | | | | 120 | | | | | | 125 | | |

435

Lys Gly Lys Gln Glu Cys Met Asp Ser Lys Leu Leu Ala Met Lys His
 130 135 140
 Glu Asn Glu Ala Leu Trp Arg Glu Val Ala Ser Leu Arg Gln Lys His
 145 150 155 160
 Ala Gln Gln Gln Lys Val Val Asn Lys Leu Ile Gln Phe Leu Ile Ser
 165 170 175
 Leu Val Gln Ser Asn Arg Ile Leu Gly Val Lys Arg Lys Ile Pro Leu
 180 185 190
 Met Leu Asn Asp Ser Gly Ser Ala His Ser Met Pro Lys Tyr Ser Arg
 195 200 205
 Gln Phe Ser Leu Glu His Val His Gly Ser Gly Pro Tyr Ser Ala Pro
 210 215 220
 Ser Pro Ala Tyr Ser Ser Ser Ser Leu Tyr Ala Pro Asp Ala Val Ala
 225 230 235 240
 Ser Ser Gly Pro Ile Ile Ser Asp Ile Thr Glu Leu Ala Pro Ala Ser
 245 250 255
 Pro Met Ala Ser Pro Gly Gly Ser Ile Asp Glu Arg Pro Leu Ser Ser
 260 265 270
 Ser Pro Leu Val Arg Val Lys Glu Glu Pro Pro Ser Pro Pro Xaa Ser
 275 280 285
 Pro Arg Val Glu Glu Ala Ser Pro Gly Xaa Pro Ser Ser Val Asp Thr
 290 295 300
 Leu Leu Ser Pro Thr Ala Leu Ile Asp Ser Ile Leu Arg Glu Ser Glu
 305 310 315 320
 Pro Ala Pro Xaa Ser Val Thr Ala Leu Thr Asp Ala Arg Gly His Thr
 325 330 335
 Asp Thr Glu Gly Arg Pro Pro Ser Pro Pro Pro Thr Ser Thr Pro Glu
 340 345 350
 Lys Cys Leu Ser Val Xaa Ala Trp Thr Arg Met Ser Ser Val Thr Thr
 355 360 365
 Trp Met Leu Trp Thr Pro Thr Trp Ile Thr Cys Arg Pro Cys
 370 375 380

<210> 485

436

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (399)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Pro Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile
 1 5 10 15

Pro Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser
 20 25 30

Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr
 35 40 45

Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr His Thr Val Ser Val
 50 55 60

Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro Phe Gln Phe Thr Val
 65 70 75 80

Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val Arg Ala Gly Gly Pro
 85 90 95

Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala Glu Phe Ser Ile Trp
 100 105 110

Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile Ala Val Glu Gly Pro
 115 120 125

Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys Asp Gly Ser Cys Gly
 130 135 140

Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr Glu Val Ser Val Lys
 145 150 155 160

Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe Val Val Pro Val Ala
 165 170 175

Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val Ser Ser Leu Gln Glu
 180 185 190

Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe Ala Val Ser Leu Asn
 195 200 205

Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His Ser Pro Ser Gly Ala
 210 215 220

437

Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln Asp Lys Tyr Ala Val
 225 230 235 240
 Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu Ile Asp Val Lys Phe
 245 250 255
 Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys Ile Arg Val Gly Glu
 260 265 270
 Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser Ala Tyr Gly Ala Gly
 275 280 285
 Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn Thr
 290 295 300
 Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro Ser
 305 310 315 320
 Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val Thr
 325 330 335
 Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr Gly
 340 345 350
 Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly
 355 360 365
 Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val Phe
 370 375 380
 Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro Gln His Gly Xaa Pro
 385 390 395 400
 Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Trp Gly
 405 410 415

<210> 486

<211> 46

<212> PRT

<213> Homo sapiens

<400> 486

Phe Val Thr Ser Gly Lys Ile Ser Leu Tyr Val Tyr Ile Leu Thr Ile
 1 5 10 15

438

Arg Leu Asp Thr Asn Lys Ala Thr Leu Leu Thr Ala Ser Gly Glu Leu
 20 25 30

Ile Leu Phe Leu Ile Phe Phe Asn Lys Asp Ile Leu Arg Tyr
 35 40 45

<210> 487

<211> 162

<212> PRT

<213> Homo sapiens

<400> 487

Leu Gly Val Ala Leu Gly Ala Val Pro Lys Leu His Leu Gly Val Leu
 1 5 10 15

Val Ser Thr Gly Leu Arg Thr Ala Val Gly Ser Pro Arg Leu Pro Pro
 20 25 30

Thr Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser Gly Thr Gly Ile
 35 40 45

Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met Lys Ser Ile Ile
 50 55 60

Pro Val Val Met Ala Gly Ile Ile Ala Ile Tyr Gly Leu Val Val Ala
 65 70 75 80

Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser Leu Tyr Lys Ser
 85 90 95

Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu Ser Gly Leu Ala
 100 105 110

Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly Val Arg Gly Thr
 115 120 125

Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu Ile Leu Ile Phe
 130 135 140

Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala Leu Ile Leu Ser
 145 150 155 160

Thr Lys

<210> 488

<211> 114

439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Leu | Arg | Pro | Gly | Ser | Phe | Arg | Gly | Thr | Gly | Arg | Lys | Arg | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Arg | Glu | Arg | Met | Ser | Leu | Ser | Asp | Trp | His | Leu | Ala | Val | Lys |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Asp | Gln | Pro | Leu | Ala | Pro | Lys | Ser | Ile | Leu | Gln | Leu | Pro | Glu |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Leu | Gly | Glu | Tyr | Ser | Leu | Gly | Gly | Tyr | Ser | Ile | Ser | Phe | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gln | Leu | Ile | Ala | Gly | Lys | Leu | Gln | Glu | Ser | Val | Pro | Asp | Pro | Glu |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ile | Asp | Leu | Ile | Tyr | Cys | Gly | Arg | Lys | Leu | Lys | Asp | Asp | Xaa | Thr |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ser | Thr | Val | Phe | Asn | Leu | Ala | Pro | His | Pro | Cys | Ser | Xaa | Glu |
| | | | 100 | | | | | 105 | | | | | | 110 | |

Xaa Leu

<210> 489

<211> 149

<212> PRT

<213> Homo sapiens

<220>

440

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | His | Ala | Ser | Glu | Asp | Val | Leu | Ala | Ala | Pro | Ser | Gly | Cys | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Arg | Pro | Pro | Thr | Ser | Gly | Arg | Glu | Gln | Phe | Trp | Ala | Arg | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Ala | Ala | Asp | Met | Thr | Lys | Gly | Leu | Val | Leu | Gly | Ile | Tyr | Ser |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Lys | Glu | Asp | Asp | Val | Pro | Gln | Phe | Thr | Ser | Ala | Gly | Glu | Asn |
| | | | 50 | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Asp | Lys | Leu | Val | Ser | Gly | Lys | Leu | Arg | Glu | Ile | Leu | Asn | Ile | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Pro | Leu | Lys | Ala | Gly | Lys | Thr | Arg | Thr | Phe | Tyr | Gly | Leu | His |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Phe | Pro | Ser | Val | Val | Val | Val | Gly | Leu | Gly | Arg | Lys | Ala | Ala |
| | | | 100 | | | | | | 105 | | | | | 110 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Asp | Asp | Gln | Glu | Asn | Trp | Xaa | Glu | Gly | Lys | Glu | Asn | Ile | Arg |
| | | | 115 | | | | 120 | | | | | | 125 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Met | Gln | Arg | Gly | Ala | Gly | Arg | Phe | Gln | Asp | Leu | Xaa | Ile | Ser |
| | | | 130 | | | | 135 | | | | | 140 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Val | Glu | Gly | Gly |
| 145 | | | | |

<210> 490

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

441

<400> 490

Arg Arg Arg Ser Arg Gly Leu Ile Pro Gly Arg Ala Pro Gly Arg Arg
 1 5 10 15

Arg Pro Arg Ala His Glu Val Ala Arg Ala Pro Pro Pro Ile Ala Met
 20 25 30

Asp Arg Met Lys Lys Ile Lys Arg Gln Leu Ser Met Thr Leu Arg Gly
 35 40 45

Gly Arg Gly Ile Asp Lys Thr Asn Gly Ala Pro Glu Gln Ile Gly Leu
 50 55 60

Asp Glu Ser Gly Gly Gly Gly Gly Ser Asp Pro Gly Glu Ala Pro Thr
 65 70 75 80

Arg Ala Ala Pro Gly Glu Leu Arg Ser Ala Arg Gly Pro Leu Ser Ser
 85 90 95

Ala Pro Glu Ile Val His Glu Asp Leu Lys Met Gly Ser Asp Gly Glu
 100 105 110

Ser Asp Gln Ala Ser Ala Thr Ser Ser Asp Glu Val Gln Ser Pro Val
 115 120 125

Arg Val Arg Met Arg Asn His Pro Pro Arg Lys Ile Ser Thr Glu Asp
 130 135 140

Ile Asn Lys Arg Leu Ser Leu Pro Ala Asp Ile Arg Leu Pro Glu Gly
 145 150 155 160

Tyr Leu Glu Lys Leu Thr Leu Asn Ser Pro Ile Phe Asp Lys Pro Leu
 165 170 175

Ser Arg Arg Leu Arg Arg Val Ser Leu Ser Glu Ile Gly Phe Gly Lys
 180 185 190

Leu Glu Thr Tyr Ile Lys Leu Asp Lys Leu Gly Glu Gly Thr Tyr Ala
 195 200 205

Thr Val Tyr Lys Gly Lys Ser Lys Leu Thr Asp Asn Leu Val Ala Leu
 210 215 220

Lys Glu Ile Arg Leu Glu His Glu Glu Gly Ala Pro Cys Thr Ala Ile
 225 230 235 240

Arg Glu Val Ser Leu Leu Lys Asp Leu Lys His Ala Asn Ile Val Thr
 245 250 255

Leu His Asp Ile Ile His Thr Glu Lys Ser Leu Thr Leu Val Phe Glu

442

| 260 | 265 | 270 |
|---|-----|---------|
| Tyr Leu Asp Lys Asp Leu Lys Gln Tyr Leu Asp Asp Cys Gly Asn Ile | | |
| 275 | 280 | 285 |
| Ile Asn Met His Asn Val Lys Leu Phe Leu Phe Gln Leu Leu Arg Gly | | |
| 290 | 295 | 300 |
| Leu Ala Tyr Cys His Arg Xaa Lys Val Leu His Arg Asp Leu Lys Pro | | |
| 305 | 310 | 315 320 |
| Gln Asn Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe | | |
| 325 | 330 | 335 |
| Gly Leu Ala Arg Ala Lys Ser Ile Pro Thr Lys Thr Tyr Ser Asn Glu | | |
| 340 | 345 | 350 |
| Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Ile Leu Leu Gly Ser Thr | | |
| 355 | 360 | 365 |
| Asp Tyr Ser Thr Gln Ile Asp Met Trp Gly Val Gly Cys Ile Phe Tyr | | |
| 370 | 375 | 380 |
| Glu Met Ala Thr Gly Arg Pro Leu Phe Pro Gly Ser Thr Val Glu Glu | | |
| 385 | 390 | 395 400 |
| Gln Leu His Phe Ile Phe Arg Ile Leu Gly Thr Pro Thr Glu Glu Thr | | |
| 405 | 410 | 415 |
| Trp Pro Gly Ile Leu Ser Asn Glu Glu Phe Lys Thr Tyr Asn Tyr Pro | | |
| 420 | 425 | 430 |
| Lys Tyr Arg Ala Glu Ala Leu Leu Ser His Ala Pro Arg Leu Asp Ser | | |
| 435 | 440 | 445 |
| Asp Gly Ala Asp Leu Leu Thr Lys Leu Leu Gln Phe Glu Gly Arg Asn | | |
| 450 | 455 | 460 |
| Arg Ile Ser Ala Glu Asp Ala Met Lys His Pro Phe Phe Leu Ser Leu | | |
| 465 | 470 | 475 480 |
| Gly Glu Arg Ile His Lys Leu Pro Asp Thr Thr Ser Ile Phe Ala Leu | | |
| 485 | 490 | 495 |
| Lys Glu Ile Gln Leu Gln Lys Glu Ala Ser Leu Arg Ser Ser Ser Met | | |
| 500 | 505 | 510 |
| Pro Asp Ser Gly Arg Pro Ala Phe Arg Val Val Asp Thr Glu Phe | | |
| 515 | 520 | 525 |

443

<210> 491
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 491
 Cys Thr Arg Ala His Pro Lys Asn Leu Val Glu Lys Gly Ile Leu Thr
 1 5 10 15
 Thr Glu Lys Gln Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Val
 20 25 30
 Thr Asn Thr Thr Glu Lys Gln Arg Leu Val Lys Lys Leu Gln Asp Ser
 35 40 45
 Val Leu Glu Arg Trp Val Asn Asp Pro Gln Arg Met Asp Lys Arg Thr
 50 55 60
 Leu Ala Leu Leu Val Leu Ala His Ser Ser Asp Val Leu Glu Asn Val
 65 70 75 80
 Phe Ser Ser Leu Thr Asp Asp Lys Tyr Asp Val Ala Met Asn Arg Ala
 85 90 95
 Lys Asp Leu Val Glu Leu Asp Pro Glu Val Glu Gly Thr Lys Pro Ser
 100 105 110
 Ala Thr Glu Met Ile Trp Ala Val Leu Ala Ala Phe Xaa
 115 120 125

<210> 492
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)

444

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Val Ser Xaa Ser Ile Leu Ala Leu Leu Phe Asn Thr Asp Ala Leu Phe
1 5 10 15

Ser Arg Val Tyr Glu Ser Leu Ser Asp Asn His Gly Leu Gln Glu Gln
20 25 30

Thr Val Glu Lys Leu Phe Phe Gln Trp Lys Ser Trp Val Gln Glu Met
35 40 45

Xaa Gly Xaa Leu Lys
50

<210> 493

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

445

<400> 493

Pro Gly Phe Phe Phe Gln Met Leu Val His Thr Tyr Ser Ser Met Asp
 1 5 10 15

Arg His Asp Gly Val Pro Ser His Ser Ser Arg Leu Ser Gln Leu Gly
 20 25 30

Ser Val Ser Gln Gly Pro Tyr Ser Ser Ala Pro Pro Leu Ser His Thr
 35 40 45

Pro Ser Ser Asp Phe Gln Pro Pro Tyr Phe Pro Xaa Pro Tyr Gln Pro
 50 55 60

Leu Pro Xaa Xaa Gln Ser Gln Asp Pro Tyr Ser His Val Xaa Xaa Pro
 65 70 75 80

Tyr Pro

<210> 494

<211> 290

<212> PRT

<213> Homo sapiens

<400> 494

Tyr Lys Asp Trp Leu Thr Lys Met Ser Gly Lys His Asp Val Gly Ala
 1 5 10 15

Tyr Met Leu Met Tyr Lys Gly Ala Asn Arg Thr Glu Thr Val Thr Ser
 20 25 30

Phe Arg Lys Arg Glu Ser Lys Val Pro Ala Asp Leu Leu Lys Arg Ala
 35 40 45

Phe Val Arg Met Ser Thr Ser Pro Glu Ala Phe Leu Ala Leu Arg Ser
 50 55 60

His Phe Ala Ser Ser His Ala Leu Ile Cys Ile Ser His Trp Ile Leu
 65 70 75 80

Gly Ile Gly Asp Arg His Leu Asn Asn Phe Met Val Ala Met Glu Thr
 85 90 95

Gly Gly Val Ile Gly Ile Asp Phe Gly His Ala Phe Gly Ser Ala Thr
 100 105 110

Gln Phe Leu Pro Val Pro Glu Leu Met Pro Phe Arg Leu Thr Arg Gln
 115 120 125

446

Phe Ile Asn Leu Met Leu Pro Met Lys Glu Thr Gly Leu Met Tyr Ser
 130 135 140
 Ile Met Val His Ala Leu Arg Ala Phe Arg Ser Asp Pro Gly Leu Leu
 145 150 155 160
 Thr Asn Thr Met Asp Val Phe Val Lys Glu Pro Ser Phe Asp Trp Lys
 165 170 175
 Asn Phe Glu Gln Lys Met Leu Lys Lys Gly Gly Ser Trp Ile Gln Glu
 180 185 190
 Ile Asn Val Ala Glu Lys Asn Trp Tyr Pro Arg Gln Lys Ile Cys Tyr
 195 200 205
 Ala Lys Arg Lys Leu Ala Gly Ala Asn Pro Ala Val Ile Thr Cys Asp
 210 215 220
 Glu Leu Leu Leu Gly His Glu Lys Ala Pro Ala Phe Arg Asp Tyr Val
 225 230 235 240
 Ala Val Ala Arg Gly Ser Lys Asp His Asn Ile Arg Ala Gln Glu Pro
 245 250 255
 Glu Ser Gly Leu Ser Glu Glu Thr Gln Val Lys Cys Leu Met Asp Gln
 260 265 270
 Ala Thr Asp Pro Asn Ile Leu Gly Arg Thr Trp Glu Gly Trp Glu Pro
 275 280 285
 Trp Met
 290

<210> 495

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Cys Gln Ser His Pro Leu Pro Gly Gly Pro Ala Cys Pro Cys Leu Ala
 1 5 10 15

Cys His Ile Thr Leu Leu Phe Gly Arg Pro Trp Leu Ile Lys Glu Val

447

| | | |
|---|-----|-----|
| 20 | 25 | 30 |
| Leu Val Val Ser Gln Ala Lys Trp Asn Leu Glu Thr Val Lys Lys Val | | |
| 35 | 40 | 45 |
| Gln Ile Thr Leu Asn Cys Ile Gln Glu Val His Phe Phe Pro Ile Val | | |
| 50 | 55 | 60 |
| Arg Gly Ser Trp Ser Leu Arg Asp Ala Arg Leu Glu Ser Asp Tyr Ile | | |
| 65 | 70 | 75 |
| Ile Ile Gln Asn Gly Asn Ser Gln Gly Asn Ala Phe Phe His Phe Ile | | |
| 85 | 90 | 95 |
| Arg Phe Phe Tyr Pro His Cys Thr Pro Ser Pro Ser Pro Leu Pro Ile | | |
| 100 | 105 | 110 |
| Trp Met Ala Ser Gln Lys Leu Gly Pro Ser Pro Pro Cys Leu Gly Gly | | |
| 115 | 120 | 125 |
| Gly Gln Ser Pro Leu Thr Ala Glu Ala Ala Leu Leu Ser Ser Ala Val | | |
| 130 | 135 | 140 |
| Leu Pro Leu Xaa Lys Cys Leu Gln Arg Val Met Ser | | |
| 145 | 150 | 155 |

<210> 496

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 496

| |
|---|
| Glu Glu Leu Leu Arg Ala Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro |
| 1 5 10 15 |
| Ala Ala Ala Glu Val Gln Gly Ala Gly Asn Glu Asn Glu Pro Arg Glu |
| 20 25 30 |
| Ala Asp Lys Ser His Pro Glu Gln Arg Xaa Leu Arg Pro Arg Leu Cys |
| 35 40 45 |
| Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn Leu His Ser Asp |
| 50 55 60 |

448

Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp Pro Asp Ser Pro
 65 70 75 80
 Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile Val Glu Val Asn
 85 90 95
 Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val Val Ser Ala Ile
 100 105 110
 Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val Asp Arg Glu Thr
 115 120 125
 Asp Glu Phe Phe Lys Lys Cys Arg Val Ile Pro Ser Gln Glu His Leu
 130 135 140
 Asn Gly Pro Leu Pro Val Pro Phe Thr Asn Gly Glu Ile Gln Lys Glu
 145 150 155 160
 Asn Ser Arg Glu Ala Leu Ala Glu Ala Ala Leu Glu Ser Pro Arg Pro
 165 170 175
 Ala Leu Val Arg Ser Ala Ser Ser Asp Thr Ser Glu Glu Leu Asn Ser
 180 185 190
 Gln Asp Ser Pro Pro Lys Gln Asp Ser Thr Ala Pro Ser Ser Thr Ser
 195 200 205
 Ser Ser Asp Pro Ile Leu Asp Phe Asn Ile Ser Leu Ala Met Ala Lys
 210 215 220
 Glu Arg Ala His Gln Lys Arg Ser Ser Lys Arg Ala Pro Gln Met Asp
 225 230 235 240
 Trp Ser Lys Lys Asn Glu Leu Phe Ser Asn Leu
 245 250

<210> 497

<211> 48

<212> PRT

<213> Homo sapiens

<400> 497

Asn Gly Ala Glu Ala Val Ser Thr Glu Ala Lys Met Thr Ala Phe Pro
 1 5 10 15
 Asp Trp Pro Trp Leu Phe His Thr Leu Cys Asp Pro Cys Pro Met Thr
 20 25 30

Leu Trp Leu Thr Leu Pro Glu Ala Met Thr Thr Ala Ala Phe Cys His

449

35

40

45

<210> 498

<211> 373

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Gly Thr Arg Gly Ser Arg Ala Ser Gly Val Cys Ala Arg Gly Cys Leu
 1 5 10 15

Asp Ser Ala Gly Pro Trp Thr Met Ser Arg Ala Leu Arg Pro Pro Leu
 20 25 30

Pro Pro Leu Cys Phe Phe Leu Leu Leu Ala Ala Ala Gly Ala Arg
 35 40 45

Ala Gly Gly Tyr Glu Thr Cys Pro Thr Val Gln Pro Asn Met Leu Asn
 50 55 60

Val His Leu Leu Pro His Thr His Asp Asp Val Gly Trp Leu Lys Thr
 65 70 75 80

Val Asp Gln Tyr Phe Tyr Gly Ile Lys Asn Asp Ile Gln His Ala Gly
 85 90 95

Val Gln Tyr Ile Leu Asp Ser Val Ile Ser Ala Leu Leu Ala Asp Pro
 100 105 110

Thr Arg Arg Phe Ile Tyr Val Glu Ile Ala Phe Phe Ser Arg Trp Trp
 115 120 125

His Gln Gln Thr Asn Ala Thr Gln Glu Val Val Arg Asp Leu Val Arg
 130 135 140

Gln Gly Arg Leu Glu Phe Ala Asn Gly Gly Trp Val Met Asn Asp Glu

450

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 |
| Ala Ala Thr His Tyr Gly Ala Ile Val Asp Gln Met Thr Leu Gly Leu | | | | | | |
| | 165 | | 170 | | 175 | |
| Arg Phe Leu Glu Asp Thr Phe Gly Asn Asp Gly Arg Pro Arg Val Ala | | | | | | |
| | 180 | | 185 | | 190 | |
| Trp His Ile Asp Pro Phe Gly His Ser Arg Glu Gln Ala Ser Leu Phe | | | | | | |
| | 195 | | 200 | | 205 | |
| Ala Gln Met Gly Phe Asp Gly Phe Phe Phe Gly Arg Leu Asp Tyr Gln | | | | | | |
| | 210 | | 215 | | 220 | |
| Asp Lys Trp Val Arg Met Gln Lys Leu Glu Met Glu Gln Val Trp Arg | | | | | | |
| 225 | | 230 | | 235 | | 240 |
| Ala Ser Thr Ser Leu Lys Pro Pro Thr Ala Asp Leu Phe Thr Gly Val | | | | | | |
| | 245 | | 250 | | 255 | |
| Leu Pro Asn Gly Tyr Asn Pro Pro Arg Asn Leu Cys Trp Asp Val Leu | | | | | | |
| | 260 | | 265 | | 270 | |
| Cys Val Asp Gln Pro Leu Val Glu Asp Pro Arg Ser Pro Glu Tyr Asn | | | | | | |
| | 275 | | 280 | | 285 | |
| Ala Lys Glu Leu Val Asp Tyr Phe Leu Asn Val Ala Thr Ala Gln Gly | | | | | | |
| | 290 | | 295 | | 300 | |
| Arg Tyr Tyr Arg Thr Asn His Thr Val Met Thr Met Gly Ser Asp Phe | | | | | | |
| 305 | | 310 | | 315 | | 320 |
| Gln Tyr Glu Asn Ala Asn Met Trp Phe Lys Asn Leu Asp Lys Leu Ile | | | | | | |
| | 325 | | 330 | | 335 | |
| Xaa Leu Val Asn Ala Gln Gly Lys Arg Lys Gln Cys Pro Cys Ser Leu | | | | | | |
| | 340 | | 345 | | 350 | |
| Leu His Pro Arg Leu Leu Pro Leu Gly Ala Glu Gln Gly Gln Pro His | | | | | | |
| | 355 | | 360 | | 365 | |
| Leu Val Ser Xaa Thr | | | | | | |
| | 370 | | | | | |

<210> 499

<211> 238

<212> PRT

<213> Homo sapiens

451

<400> 499

Ala Leu Pro Gly Pro Asp Trp His Gly Ala Gly Ala Ala Asp Arg Gly
 1 5 10 15
 Pro Ala Ala Pro Pro Arg Pro Gly Pro Cys Ala Tyr Ala Ala His Gly
 20 25 30
 Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg Cys Leu His Asp Ile Ala
 35 40 45
 Leu Ala His Arg Ala Ala Thr Ala Ala Arg Pro Pro Ala Pro Pro Pro
 50 55 60
 Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser Pro Pro Arg Pro Thr Leu
 65 70 75 80
 Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp Glu Pro Thr Glu Thr Glu
 85 90 95
 Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp Asn Gly Gly Leu Phe Val
 100 105 110
 Met Asp Glu Asp Ala Thr Leu Gln Asp Leu Pro Pro Phe Cys Glu Ser
 115 120 125
 Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu Ser Glu Glu Thr Pro Ala
 130 135 140
 Gly Pro Pro Thr Cys Ser Val Pro Pro Ala Ser Ala Leu Pro Thr Gln
 145 150 155 160
 Gln Tyr Ala Lys Ser Leu Pro Val Ser Val Pro Val Trp Gly Phe Lys
 165 170 175
 Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp Glu Glu Asn Gly Pro Pro
 180 185 190
 Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala Ser Met Arg Ala Leu Val
 195 200 205
 Leu Arg Glu Ala Glu Asp Thr Gln Val Phe Gly Asp Leu Pro Arg Pro
 210 215 220
 Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu Lys Arg Lys Tyr
 225 230 235

<210> 500

<211> 198

<212> PRT

452

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 500

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Glu | Leu | Ser | Pro | Gly | Leu | Cys | Ser | Pro | Thr | Pro | Thr | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Ala | Gly | Asp | Ala | Gly | Pro | Ala | Ala | Arg | Ser | Arg | Lys | Gln | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Ser | Pro | Pro | Cys | Cys | Cys | Val | Asp | Asp | Thr | Trp | Ala | Gln | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Gly | Pro | Val | Thr | Ser | Cys | Thr | Gly | Phe | Val | Glu | Gly | Ser | Ser |
| | 50 | | | | | 55 | | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Gly | Gly | Met | Gly | Ser | Ala | Cys | Ile | Lys | Val | Thr | Lys | Tyr | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Leu | Phe | Asn | Leu | Ile | Phe | Phe | Ile | Leu | Gly | Ala | Xaa | Ile | Leu |
| | | | | 85 | | | | | | 90 | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Gly | Val | Trp | Ile | Leu | Ala | Asp | Lys | Ser | Ser | Phe | Ile | Ser | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Thr | Ser | Ser | Ser | Ser | Leu | Arg | Met | Gly | Ala | Tyr | Val | Phe | Ile |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Gly | Ala | Val | Thr | Met | Leu | Met | Gly | Phe | Leu | Gly | Cys | Ile | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Asn | Glu | Val | Arg | Cys | Leu | Leu | Gly | Leu | Xaa | Phe | Ala | Phe | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ile | Leu | Ile | Ala | Gln | Val | Thr | Ala | Gly | Ala | Leu | Phe | Tyr | Phe |
| | | | 165 | | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Met | Gly | Lys | Val | Ser | Pro | Ser | Leu | Pro | Pro | Ser | Ser | Leu | Gly | Trp |
| | | | 180 | | | | | 185 | | | | | 190 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Thr | Asn | His | Gly | Gly | Asp |
| | | | 195 | | |

453

<210> 501

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 501

Ser Ser Ala Ser Thr Asn Met Ser Arg Gly Ser Ser Ala Gly Phe Asp
 1 5 10 15

Arg His Ile Thr Ile Phe Ser Pro Glu Gly Arg Leu Tyr Gln Val Glu
 20 25 30

Tyr Ala Phe Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val
 35 40 45

Arg Gly Lys Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val Pro Asp
 50 55 60

Lys Leu Leu Asp Ser Ser Thr Val Thr His Leu Phe Lys Ile Thr Glu
 65 70 75 80

Asn Ile Gly Cys Val Met Thr Gly Met Thr Ala Asp Ser Arg Ser Gln
 85 90 95

Val Gln Arg Ala Arg Tyr Glu Ala Ala Asn Trp Lys Tyr Lys Tyr Gly
 100 105 110

Tyr Glu Ile Pro Val Asp Met Leu Cys Lys Arg Ile Ala Asp Ile Ser
 115 120 125

Gln Val Tyr Thr Gln Asn Ala Glu Met Arg Pro Leu Gly Cys Cys Met
 130 135 140

Ile Leu Ile Gly Ile Asp Glu Glu Gln Gly Pro Gln Val Tyr Lys Cys
 145 150 155 160

Asp Pro Ala Gly Xaa Tyr Cys Gly Val
 165

<210> 502

<211> 507

454

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (361)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Gln | Leu | Cys | Arg | Pro | Ala | Glu | Xaa | Asp | Ser | Val | Met | Ala | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Ala | Leu | Ser | Arg | Thr | Gln | Val | Cys | Gly | Ile | Leu | Arg | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Gln | Gly | Asp | Ala | Phe | His | Gln | Ser | Asp | Thr | His | Ile | Phe | Ile |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Met | Gly | Ala | Ser | Gly | Asp | Leu | Ala | Lys | Lys | Lys | Ile | Tyr | Pro | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Trp | Trp | Leu | Phe | Arg | Asp | Gly | Leu | Leu | Pro | Glu | Asn | Thr | Phe | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Tyr | Ala | Arg | Ser | Arg | Leu | Thr | Val | Ala | Asp | Ile | Arg | Lys | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Pro | Phe | Phe | Lys | Ala | Thr | Pro | Glu | Glu | Lys | Leu | Lys | Leu | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Phe | Ala | Arg | Asn | Ser | Tyr | Val | Ala | Gly | Gln | Tyr | Asp | Asp | Ala |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Tyr | Gln | Arg | Leu | Asn | Ser | His | Met | Asn | Ala | Leu | His | Leu | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Ala | Asn | Arg | Leu | Phe | Tyr | Leu | Ala | Leu | Pro | Pro | Thr | Val | Tyr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Val | Thr | Lys | Asn | Ile | His | Glu | Ser | Cys | Met | Ser | Gln | Ile | Gly |
| | | | | 165 | | | | | 170 | | | | | 175 | |

455

Trp Asn Arg Ile Ile Val Glu Lys Pro Phe Gly Arg Asp Leu Gln Ser
 180 185 190
 Ser Asp Arg Leu Ser Asn His Ile Ser Ser Leu Phe Arg Glu Asp Gln
 195 200 205
 Ile Tyr Arg Ile Asp His Tyr Leu Gly Lys Glu Met Val Gln Asn Leu
 210 215 220
 Met Val Leu Arg Phe Ala Asn Arg Ile Phe Gly Pro Ile Trp Asn Arg
 225 230 235 240
 Asp Asn Ile Ala Cys Val Ile Leu Thr Phe Lys Glu Pro Phe Gly Thr
 245 250 255
 Glu Gly Arg Gly Gly Tyr Phe Asp Glu Phe Gly Ile Ile Arg Asp Val
 260 265 270
 Met Gln Asn His Leu Leu Gln Met Leu Cys Leu Val Ala Met Glu Lys
 275 280 285
 Pro Ala Ser Thr Asn Ser Asp Asp Val Arg Asp Glu Lys Val Lys Val
 290 295 300
 Leu Lys Cys Ile Ser Glu Val Gln Ala Asn Asn Val Val Leu Gly Gln
 305 310 315 320
 Tyr Val Gly Asn Pro Asp Gly Glu Gly Glu Ala Thr Lys Gly Tyr Leu
 325 330 335
 Asp Asp Pro Thr Val Pro Arg Gly Ser Thr Thr Ala Thr Phe Ala Ala
 340 345 350
 Val Val Leu Tyr Val Glu Asn Glu Xaa Trp Asp Gly Val Pro Phe Ile
 355 360 365
 Leu Arg Cys Gly Lys Ala Leu Asn Glu Arg Lys Ala Glu Val Arg Leu
 370 375 380
 Gln Phe His Asp Val Ala Gly Asp Ile Phe His Gln Gln Cys Lys Arg
 385 390 395 400
 Asn Glu Leu Val Ile Arg Val Gln Pro Asn Glu Ala Val Tyr Thr Lys
 405 410 415
 Met Met Thr Lys Lys Pro Gly Met Phe Phe Asn Pro Glu Glu Ser Glu
 420 425 430
 Leu Asp Leu Thr Tyr Gly Asn Arg Tyr Lys Asn Val Lys Leu Pro Asp
 435 440 445

456

Ala Tyr Glu Arg Leu Ile Leu Asp Val Phe Cys Gly Xaa Gln Met His
 450 455 460

Phe Val Arg Arg Thr Ser Ser Val Arg Pro Gly Val Phe Ser Pro His
 465 470 475 480

Cys Cys Thr Arg Leu Ser Trp Arg Ser Pro Ser Pro Ser Pro Ile Phe
 485 490 495

Met Ala Ala Glu Ala Pro Arg Arg Gln Thr Ser
 500 505

<210> 503

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Gly Pro Glu Val Leu Pro Glu Pro Arg Val Pro Arg Glu Ala Leu Ala
 1 5 10 15

Phe Ile Ile Arg Ser Phe Gly Gly Glu Val Ser Trp Asp Lys Ser Leu
 20 25 30

Cys Ile Gly Ala Thr Tyr Asp Val Thr Asp Ser Arg Ile Thr His Gln
 35 40 45

Ile Val Asp Arg Pro Gly Gln Gln Thr Ser Val Ile Gly Arg Cys Tyr
 50 55 60

Val Gln Pro Gln Xaa Val Phe Asp Ser Val Asn Ala Arg Leu Leu Leu
 65 70 75 80

Pro Val Ala Glu Tyr Phe Ser Gly Val Gln Leu Pro Pro His Leu Ser
 85 90 95

Pro Phe Val Thr Glu Lys Glu Gly Asp Tyr Val Pro Pro Glu Lys Leu
 100 105 110

Lys Leu Leu Ala Leu Gln Arg Gly Glu Asp Pro Gly Asn Leu Asn Glu
 115 120 125

Ser Glu Glu Glu Glu Glu Asp Asp Asn Asn Glu Gly Asp Gly Asp

457

130 135 140
 Glu Glu Gly Glu Asn Glu Glu Glu Glu Asp Ala Glu Ala Gly Ser
 145 150 155 160
 Glu Lys Glu Glu Glu Ala Arg Leu Ala Ala Leu Glu Glu Gln Arg Met
 165 170 175
 Glu Gly Lys Lys Pro Arg Val Met Ala Gly Thr Leu Lys Leu Glu Asp
 180 185 190
 Lys Gln Arg Leu Ala Gln Glu Glu Glu Ser Glu Ala Lys Arg Leu Ala
 195 200 205
 Ile Met Met Met Lys Lys Arg Glu Lys Tyr Leu Tyr Gln Lys Ile Met
 210 215 220
 Phe Gly Lys Arg Arg Lys Ile Arg Glu Ala Asn Lys Leu Ala Glu Lys
 225 230 235 240
 Arg Lys Ala His Asp Glu Ala Val Arg Ser Glu Lys Lys Ala Lys Lys
 245 250 255
 Ala Arg Pro Glu
 260

<210> 504
 <211> 424
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (292)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (342)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 504
 Leu Leu Gln Arg Cys Tyr Ala Phe Pro Gly His Arg Leu Ala His Ser
 1 5 10 15

Gly Ser Asp Leu Ser Leu Leu Val Pro Glu Ile Glu Asp Met Tyr Ser
 20 25 30

Ser Pro Tyr Leu Arg Pro Ser Glu Ser Pro Ile Thr Val Glu Val Asn

458

| | | |
|---|-----|-------------|
| 35 | 40 | 45 |
| Cys Thr Asn Pro Gly Thr Arg Tyr Cys Trp Met Ser Thr Gly Leu Tyr | | |
| 50 | 55 | 60 |
| Ile Pro Gly Arg Gln Ile Ile Glu Val Ser Leu Pro Glu Ala Ala Ala | | |
| 65 | 70 | 75 80 |
| Ser Ala Asp Leu Lys Ile Gln Ile Gly Cys His Thr Asp Asp Leu Thr | | |
| | 85 | 90 95 |
| Arg Ala Ser Lys Leu Phe Arg Gly Pro Leu Val Ile Asn Arg Cys Cys | | |
| | 100 | 105 110 |
| Leu Asp Lys Pro Thr Lys Ser Ile Thr Cys Leu Trp Gly Gly Leu Leu | | |
| | 115 | 120 125 |
| Tyr Ile Ile Val Pro Gln Asn Ser Lys Leu Gly Ser Val Pro Val Thr | | |
| | 130 | 135 140 |
| Val Lys Gly Ala Val His Ala Pro Tyr Tyr Lys Leu Gly Glu Thr Thr | | |
| | 145 | 150 155 160 |
| Leu Glu Glu Trp Lys Arg Arg Ile Gln Glu Asn Pro Gly Pro Trp Gly | | |
| | 165 | 170 175 |
| Glu Leu Ala Thr Asp Asn Ile Ile Leu Thr Val Pro Thr Ala Asn Leu | | |
| | 180 | 185 190 |
| Arg Thr Leu Glu Asn Pro Glu Pro Leu Leu Arg Leu Trp Asp Glu Val | | |
| | 195 | 200 205 |
| Met Gln Ala Val Ala Arg Leu Gly Ala Glu Pro Phe Pro Leu Arg Leu | | |
| | 210 | 215 220 |
| Pro Gln Arg Ile Val Ala Asp Val Gln Ile Ser Val Gly Trp Met His | | |
| | 225 | 230 235 240 |
| Ala Gly Tyr Pro Ile Met Cys His Leu Glu Ser Val Gln Glu Leu Ile | | |
| | 245 | 250 255 |
| Asn Glu Lys Leu Ile Arg Thr Lys Gly Leu Trp Gly Pro Val His Glu | | |
| | 260 | 265 270 |
| Leu Gly Arg Asn Gln Gln Arg Gln Glu Trp Glu Phe Pro Pro His Thr | | |
| | 275 | 280 285 |
| Thr Glu Ala Xaa Cys Asn Leu Trp Cys Val Tyr Val His Glu Thr Val | | |
| | 290 | 295 300 |
| Leu Gly Ile Pro Arg Ser Arg Ala Asn Ile Ala Leu Trp Pro Pro Val | | |

459

```

305          310          315          320
Arg Glu Lys Arg Val Arg Ile Tyr Leu Ser Lys Gly Pro Asn Val Lys
          325          330          335
Asn Trp Asn Ala Trp Xaa Ala Leu Glu Thr Tyr Leu Gln Leu Gln Glu
          340          345          350
Ala Phe Gly Trp Glu Pro Phe Ile Arg Leu Phe Thr Glu Tyr Arg Asn
          355          360          365
Gln Thr Asn Leu Pro Thr Glu Asn Val Asp Lys Met Asn Leu Trp Val
          370          375          380
Lys Met Phe Ser His Gln Val Gln Lys Asn Leu Ala Pro Phe Phe Glu
385          390          395          400
Ala Trp Ala Gly Pro Ser Arg Arg Lys Trp Leu Pro Ala Trp Pro Ile
          405          410          415
Cys Leu Asn Gly Arg Lys Ile Leu
          420

```

<210> 505

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

460

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Leu His Gln Ser Leu Leu His Leu Glu Lys Thr Asn Glu Arg Lys Ser
 1             5             10             15

Ile Phe Leu Ile His Tyr Pro Asn Asn Asn Arg Thr Pro Tyr Arg Asn
      20             25             30

Tyr Tyr His Tyr Val Ser Lys His Tyr Ile Pro Ile Thr Tyr Pro Thr
      35             40             45

Xaa Ser Ile Ile Asp Xaa Ile Ser Ile Pro Thr Met Ile Ser Ala Leu
      50             55             60

Asn Xaa Gln Asn Lys Xaa
65             70

```

<210> 506

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (363)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

```

Ser Thr His Ala Ser Ala His Ala Ser Val Ser Thr Ala Ala Ala Ala
 1             5             10             15

Ala Leu Ala Ala Ala Ala Val Lys Ala Lys His Leu Ala Ala Val Glu
      20             25             30

Glu Arg Lys Ile Lys Ser Leu Val Ala Leu Leu Val Glu Thr Gln Met
      35             40             45

Lys Lys Leu Glu Ile Lys Leu Arg His Phe Glu Glu Leu Glu Thr Ile
      50             55             60

Met Asp Arg Glu Xaa Glu Ala Leu Glu Tyr Gln Arg Gln Gln Leu Leu

```


461

| | | | | | | |
|---|-----|----|-----|----|-----|----|
| 65 | | 70 | | 75 | | 80 |
| Ala Asp Arg Gln Ala Phe His Met Glu Gln Leu Lys Tyr Ala Glu Met | | | | | | |
| | 85 | | 90 | | 95 | |
| Arg Ala Arg Gln Gln His Phe Gln Gln Met His Gln Gln Gln Gln Gln | | | | | | |
| | 100 | | 105 | | 110 | |
| Pro Pro Pro Ala Leu Pro Pro Gly Ser Gln Pro Ile Pro Pro Thr Gly | | | | | | |
| | 115 | | 120 | | 125 | |
| Ala Ala Gly Pro Pro Ala Xaa His Gly Leu Ala Val Ala Pro Ala Ser | | | | | | |
| | 130 | | 135 | | 140 | |
| Val Val Pro Ala Pro Ala Gly Ser Gly Ala Pro Pro Gly Ser Leu Gly | | | | | | |
| | 145 | | 150 | | 155 | |
| Pro Ser Glu Gln Ile Gly Gln Ala Gly Ser Thr Ala Gly Pro Gln Gln | | | | | | |
| | 165 | | 170 | | 175 | |
| Gln Gln Pro Ala Gly Ala Pro Gln Pro Gly Ala Val Pro Pro Gly Val | | | | | | |
| | 180 | | 185 | | 190 | |
| Pro Pro Pro Gly Pro His Gly Pro Ser Pro Phe Pro Asn Gln Gln Thr | | | | | | |
| | 195 | | 200 | | 205 | |
| Pro Pro Ser Met Met Pro Gly Ala Val Pro Gly Ser Gly His Pro Gly | | | | | | |
| | 210 | | 215 | | 220 | |
| Val Ala Gly Asn Ala Pro Leu Gly Leu Pro Phe Gly Met Pro Pro Pro | | | | | | |
| | 225 | | 230 | | 235 | |
| Pro Pro Pro Pro Ala Pro Ser Ile Ile Pro Phe Gly Ser Leu Ala Asp | | | | | | |
| | 245 | | 250 | | 255 | |
| Ser Ile Ser Ile Asn Leu Pro Ala Pro Pro Asn Leu His Gly His His | | | | | | |
| | 260 | | 265 | | 270 | |
| His His Leu Pro Phe Ala Pro Gly Thr Leu Pro Pro Pro Asn Leu Pro | | | | | | |
| | 275 | | 280 | | 285 | |
| Val Ser Met Ala Asn Pro Leu His Pro Asn Leu Pro Ala Thr Thr Thr | | | | | | |
| | 290 | | 295 | | 300 | |
| Met Pro Ser Ser Leu Pro Leu Gly Pro Gly Leu Gly Ser Ala Ala Ala | | | | | | |
| | 305 | | 310 | | 315 | |
| Gln Ser Pro Ala Ile Val Ala Ala Val Gln Gly Asn Leu Leu Pro Ser | | | | | | |
| | 325 | | 330 | | 335 | |
| Ala Ser Pro Leu Pro Asp Pro Gly Thr Pro Leu Pro Pro Asp Pro Thr | | | | | | |

462

| | | |
|---|-----|---------|
| 340 | 345 | 350 |
| Ala Pro Ser Pro Arg His Gly His Pro Cys Xaa His Leu His Ser Glu | | |
| 355 | 360 | 365 |
| Glu Pro Ala Arg His Leu Ser Pro Ser Pro Pro Val Asp Ile Thr Val | | |
| 370 | 375 | 380 |
| Pro Gly Thr Ala Leu Pro Pro Pro Leu Gly Pro Ser Pro Ala Trp Arg | | |
| 385 | 390 | 395 400 |
| Val His His Tyr Val Arg Lys Ala Pro Ser Ala Pro Pro Lys Pro Ser | | |
| 405 | 410 | 415 |
| Pro Cys Leu Thr Glu Ala Cys Ile Phe Ile Ser Asp Tyr Ser Arg Thr | | |
| 420 | 425 | 430 |

Ser Val

<210> 507
 <211> 303
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (280)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 507
 Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu Tyr Arg Val Leu
 1 5 10 15
 Ile Thr Thr Leu Ile Thr Ala Gly Ser Trp Ser Arg Pro Ser Phe Pro
 20 25 30
 Leu Ile Thr Ser His Thr Ser Ser Ser Met Arg Leu Ala Thr Ala Trp
 35 40 45
 Ser Leu Arg Ser Leu Val Ala Ile Ala Gly Leu Met Glu Val Lys Glu
 50 55 60
 Thr Gly Asp Pro Gly Gly Gln Leu Val Leu Ala Gly Asp Pro Arg Gln

463

| | | | | | | |
|---|---|----|-----|----|-----|-----|
| 65 | | 70 | | 75 | | 80 |
| Leu Gly Pro Val | Leu Arg Ser Pro Leu Thr Gln Lys His Gly Leu Gly | | | | | |
| | 85 | | 90 | | | 95 |
| Tyr Ser Leu Leu Glu Arg Leu Leu Thr Tyr Asn Ser Leu Tyr Lys Lys | | | | | | |
| | 100 | | 105 | | | 110 |
| Gly Pro Asp Gly Tyr Asp Pro Gln Phe Ile Thr Lys Leu Leu Arg Asn | | | | | | |
| | 115 | | 120 | | | 125 |
| Tyr Arg Ser His Pro Thr Ile Leu Asp Ile Pro Asn Gln Leu Tyr Tyr | | | | | | |
| | 130 | | 135 | | | 140 |
| Glu Gly Glu Leu Gln Ala Cys Ala Asp Val Val Asp Arg Glu Arg Phe | | | | | | |
| | 145 | | 150 | | 155 | 160 |
| Cys Arg Trp Ala Xaa Leu Pro Arg Gln Gly Phe Pro Ile Ile Phe His | | | | | | |
| | 165 | | 170 | | | 175 |
| Gly Val Met Gly Lys Asp Glu Arg Glu Gly Asn Ser Pro Ser Phe Phe | | | | | | |
| | 180 | | 185 | | | 190 |
| Asn Pro Glu Glu Ala Ala Thr Val Thr Ser Tyr Leu Lys Leu Leu Leu | | | | | | |
| | 195 | | 200 | | | 205 |
| Ala Pro Ser Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val | | | | | | |
| | 210 | | 215 | | | 220 |
| Gly Val Ile Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys | | | | | | |
| | 225 | | 230 | | 235 | 240 |
| Ile Thr Lys Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp | | | | | | |
| | 245 | | 250 | | | 255 |
| Leu Lys Val Gly Ser Val Glu Glu Phe Gln Gly Gln Glu Arg Ser Val | | | | | | |
| | 260 | | 265 | | | 270 |
| Ile Leu Ile Ser Thr Val Arg Xaa Ala Arg Ala Leu Cys Ser Trp Ile | | | | | | |
| | 275 | | 280 | | | 285 |
| Trp Thr Leu Ile Trp Val Ser Leu Arg Thr Pro Arg Gly Ser Met | | | | | | |
| | 290 | | 295 | | | 300 |

<210> 508

<211> 250

<212> PRT

<213> Homo sapiens

464

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gln | Tyr | Leu | Pro | Leu | Thr | Glu | Glu | Glu | Leu | Glu | Lys | Glu | Ala | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Val | Glu | Gly | Phe | Asp | Leu | Val | Gln | Lys | Pro | Ser | Tyr | Tyr | Val | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Ser | Leu | Ser | Thr | Lys | Leu | His | Ser | Arg | Ala | Tyr | Gln | Gln | Ala |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Leu | Ser | Arg | Val | Lys | Glu | Ala | Lys | Gln | Lys | Ser | Gln | Gln | Thr | Ile | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gln | Leu | His | Ser | Thr | Val | His | Leu | Ile | Glu | Phe | Ala | Arg | Lys | Asn | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Tyr | Ser | Ala | Asn | Gln | Lys | Ile | Gln | Asp | Ala | Gln | Asp | Lys | Leu | Tyr | Leu |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Ser | Trp | Val | Glu | Trp | Lys | Arg | Ser | Ile | Gly | Tyr | Asp | Asp | Thr | Asp | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Ser | His | Cys | Ala | Glu | His | Ile | Glu | Ser | Arg | Thr | Leu | Ala | Ile | Ala | Arg |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Asn | Leu | Thr | Gln | Gln | Leu | Gln | Thr | Thr | Cys | His | Thr | Leu | Leu | Ser | Asn |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ile | Gln | Gly | Val | Pro | Gln | Asn | Ile | Gln | Asp | Gln | Ala | Lys | His | Met | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| Val | Met | Ala | Gly | Asp | Ile | Tyr | Ser | Val | Phe | Arg | Asn | Ala | Ala | Ser | Phe |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Lys | Glu | Val | Ser | Asp | Ser | Leu | Leu | Thr | Ser | Ser | Lys | Gly | Gln | Leu | Gln |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Lys | Met | Lys | Glu | Ser | Leu | Asp | Asp | Val | Met | Asp | Tyr | Leu | Val | Asn | Asn |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Thr | Pro | Leu | Asn | Trp | Leu | Val | Gly | Pro | Phe | Tyr | Pro | Gln | Leu | Thr | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ser | Gln | Asn | Ala | Gln | Asp | Gln | Gly | Ala | Glu | Met | Asp | Lys | Ser | Ser | Gln |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |

Glu Thr Gln Arg Ser Glu His Lys Thr His
245 250

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<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 510
<211> 392
<212> PRT
<213> Homo sapiens
```

<400> 510
Gly Ala Met Arg Gly Asp Arg Gly Arg Gly Arg Gly Gly Arg Phe Gly
1 5 10 15
Ser Arg Gly Gly Pro Gly Gly Gly Phe Arg Pro Phe Val Pro His Ile
20 25 30

466

Pro Phe Asp Phe Tyr Leu Cys Glu Met Ala Phe Pro Arg Val Lys Pro
 35 40 45
 Ala Pro Asp Glu Thr Ser Phe Ser Glu Ala Leu Leu Lys Arg Asn Gln
 50 55 60
 Asp Leu Ala Pro Asn Ser Ala Glu Gln Ala Ser Ile Leu Ser Leu Val
 65 70 75 80
 Thr Lys Ile Asn Asn Val Ile Asp Asn Leu Ile Val Ala Pro Gly Thr
 85 90 95
 Phe Glu Val Gln Ile Glu Glu Val Arg Gln Val Gly Ser Tyr Lys Lys
 100 105 110
 Gly Thr Met Thr Thr Gly His Asn Val Ala Asp Leu Val Val Ile Leu
 115 120 125
 Lys Ile Leu Pro Thr Leu Glu Ala Val Ala Ala Leu Gly Asn Lys Val
 130 135 140
 Val Glu Ser Leu Arg Ala Gln Asp Pro Ser Glu Val Leu Thr Met Leu
 145 150 155 160
 Thr Asn Glu Thr Gly Phe Glu Ile Ser Ser Ser Asp Ala Thr Val Lys
 165 170 175
 Ile Leu Ile Thr Thr Val Pro Pro Asn Leu Arg Lys Leu Asp Pro Glu
 180 185 190
 Leu His Leu Asp Ile Lys Val Leu Gln Ser Ala Leu Ala Ala Ile Arg
 195 200 205
 His Ala Arg Trp Phe Glu Glu Asn Ala Ser Gln Ser Thr Val Lys Val
 210 215 220
 Leu Ile Arg Leu Leu Lys Asp Leu Arg Ile Arg Phe Pro Gly Phe Glu
 225 230 235 240
 Pro Leu Thr Pro Trp Ile Leu Asp Leu Leu Gly His Tyr Ala Val Met
 245 250 255
 Asn Asn Pro Thr Arg Gln Pro Leu Ala Leu Asn Val Ala Tyr Arg Arg
 260 265 270
 Cys Leu Gln Ile Leu Ala Ala Gly Leu Phe Leu Pro Gly Ser Val Gly
 275 280 285
 Ile Thr Asp Pro Cys Glu Ser Gly Asn Phe Arg Val His Thr Val Met
 290 295 300

467

Thr Leu Glu Gln Gln Asp Met Val Cys Tyr Thr Ala Gln Thr Leu Val
 305 310 315 320

Arg Ile Leu Ser His Gly Gly Phe Arg Lys Ile Leu Gly Gln Glu Gly
 325 330 335

Asp Ala Ser Tyr Leu Ala Ser Glu Ile Ser Thr Trp Asp Gly Val Ile
 340 345 350

Val Thr Pro Ser Glu Lys Ala Tyr Glu Lys Pro Pro Glu Lys Lys Glu
 355 360 365

Gly Glu Glu Glu Glu Glu Asn Thr Glu Glu Pro Pro Gln Gly Glu Glu
 370 375 380

Glu Glu Ser Met Glu Thr Gln Glu
 385 390

<210> 511

<211> 72

<212> PRT

<213> Homo sapiens

<400> 511

His Gly Gly Gly Lys Gly Arg Gln Val Gly Leu His Ser Val Gln Arg
 1 5 10 15

Pro Ala Arg Arg Glu Thr Ala Ala Ser Trp Gly Leu Cys Val Lys Ile
 20 25 30

Pro Asp Leu Gly Val Ala Phe Val Tyr Lys Met Gln Glu Gly Lys Pro
 35 40 45

Val Pro Asp Ser Ser Arg Gln His Ala Gln Leu Ser Gly Ser Pro Val
 50 55 60

Ser Gln Gly Leu Ser Leu Pro Leu
 65 70

<210> 512

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Gly Trp Cys Ser Cys Ala His Ser Ser Ala Trp Pro Gly Xaa Trp Gly
1 5 10 15

Ala Ser Gly Ile Pro Gln Gln Ala Pro Met Thr Val Cys Asp Gln Ala
20 25 30

Xaa Pro Val Thr Phe Leu Leu Leu His Leu Glu Gly Gly Asp Ile His
35 40 45

Thr Val Ser His Leu Ser Ser Pro Pro Pro Gly Val Ala His Arg Met
50 55 60

Gly Thr Gly Gly Ser Arg Asn Pro Asn Pro Ala Trp Leu Gly Gly Ala
65 70 75 80

Leu Leu Val Arg Gly Arg Pro Ala Ser Leu Ala Pro Trp Gly His Ser
85 90 95

Trp Lys Arg Gly Leu Ala His Ala Pro Leu Arg Ala Gly Thr Cys Thr
100 105 110

Gly His Thr Arg His Ser Ala Cys Trp Asn Arg Trp Leu Cys Ser Cys
115 120 125

Ser Gly Pro Arg Ala Ala Xaa Leu Arg Pro Cys Thr Ser His Met His
130 135 140

Trp Thr Arg Ala Glu Thr Pro Val Cys Tyr Arg Ala Leu Val Leu Cys
145 150 155 160

Gly Pro Gly Ala Thr Ala Gln Ser Ser Gln Trp Arg Ser Thr Pro Leu
165 170 175

Asp Ser Ile Phe Phe
180

469

<210> 513
 <211> 202
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 513

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Asp | Thr | Ile | Glu | Gly | Thr | Pro | Ala | Gly | Thr | Val | Pro | Xaa | Phe | 1 | 5 | 10 | 15 |
| Pro | Gly | Arg | Pro | Thr | Arg | Ala | Ile | Met | Ala | Gln | Asp | Gln | Gly | Glu | Lys | 20 | 25 | 30 | |
| Glu | Asn | Pro | Met | Arg | Glu | Leu | Arg | Ile | Arg | Lys | Leu | Cys | Leu | Asn | Ile | 35 | 40 | 45 | |
| Cys | Val | Gly | Glu | Ser | Gly | Asp | Arg | Leu | Thr | Arg | Ala | Ala | Lys | Val | Leu | 50 | 55 | 60 | |
| Glu | Gln | Leu | Thr | Gly | Gln | Thr | Pro | Val | Phe | Ser | Lys | Ala | Arg | Tyr | Thr | 65 | 70 | 75 | 80 |
| Val | Arg | Ser | Phe | Gly | Ile | Arg | Arg | Asn | Glu | Lys | Ile | Ala | Val | His | Cys | 85 | 90 | 95 | |
| Thr | Val | Arg | Gly | Ala | Lys | Ala | Glu | Glu | Ile | Leu | Glu | Lys | Gly | Leu | Lys | 100 | 105 | 110 | |
| Val | Arg | Glu | Tyr | Glu | Leu | Arg | Lys | Asn | Asn | Phe | Ser | Asp | Thr | Gly | Asn | 115 | 120 | 125 | |
| Phe | Gly | Phe | Gly | Ile | Gln | Glu | His | Ile | Asp | Leu | Gly | Ile | Lys | Tyr | Asp | 130 | 135 | 140 | |
| Pro | Ser | Ile | Gly | Ile | Tyr | Gly | Leu | Asp | Phe | Tyr | Val | Val | Leu | Gly | Arg | 145 | 150 | 155 | 160 |
| Pro | Gly | Phe | Ser | Ile | Ala | Asp | Lys | Lys | Arg | Arg | Thr | Gly | Cys | Ile | Gly | 165 | 170 | 175 | |
| Ala | Lys | His | Arg | Ile | Ser | Lys | Glu | Glu | Ala | Met | Arg | Trp | Phe | Gln | Gln | 180 | 185 | 190 | |
| Lys | Tyr | Asp | Gly | Ile | Ile | Leu | Pro | Gly | Lys | | | | | | | 195 | 200 | | |

470

<210> 514
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 514
 Xaa Xaa Lys Asn Xaa Ile Thr Pro Lys Glu Glu Ser Pro Pro His Xaa
 1 5 10 15
 Ala Leu Leu Ser Lys Cys Leu Leu Thr Pro Ser Pro Lys Met Pro Pro
 20 25 30
 Ile Leu Xaa Val Met Ala Ala Leu Gly Phe Glu Arg Arg Glu Phe Gly
 35 40 45
 Ser Thr Ser Val Glu Arg Val Gln Ser Arg Gln Leu Asp Cys Phe
 50 55 60

<210> 515
 <211> 218
 <212> PRT
 <213> Homo sapiens

471

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Ser Leu Ala Arg Gly Cys Gln Arg Pro Asp Ala Val Leu Tyr Ala Arg
1 5 10 15

His Tyr Asn Ile Pro Val Ile His Ala Phe Arg Arg Ala Val Asp Asp
20 25 30

Pro Gly Leu Val Phe Asn Gln Leu Pro Lys Met Leu Tyr Pro Glu Tyr
35 40 45

His Lys Val His Gln Met Met Arg Glu Gln Ser Ile Leu Ser Pro Ser
50 55 60

Pro Tyr Glu Gly Tyr Arg Ser Leu Pro Arg His Gln Leu Leu Cys Phe
65 70 75 80

Lys Glu Asp Cys Gln Ala Val Phe Gln Asp Leu Glu Gly Val Glu Lys
85 90 95

Val Phe Gly Val Ser Leu Val Leu Val Leu Ile Gly Ser His Pro Asp
100 105 110

Leu Ser Phe Leu Pro Gly Ala Gly Ala Asp Phe Ala Val Asp Pro Asp
115 120 125

Gln Pro Leu Ser Ala Lys Arg Asn Pro Ile Asp Val Asp Pro Phe Thr
130 135 140

Tyr Gln Ser Thr Arg Gln Xaa Gly Leu Tyr Ala Met Gly Pro Leu Ala
145 150 155 160

Gly Asp Asn Phe Val Arg Phe Val Gln Gly Gly Ala Leu Ala Val Ala
165 170 175

Ser Ser Leu Leu Arg Lys Glu Gln Asn His Leu His Arg Gln Pro Trp
180 185 190

472

Ser Ser Leu Arg Gly Ile His Pro Leu Ile Asp Leu Lys Ser Gly Val
195 200 205

Xaa Pro Xaa Leu Val Lys Leu Thr Ala Gln
210 215

<210> 516

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 516

Asn Gly Arg Pro Asp Ser Thr Gly Pro Ala Ile Pro Gly Ile Leu Ser
1 5 10 15

Trp Gly Phe Glu Thr Xaa Leu Arg Asp Arg Glu Thr Asp Pro Arg Asn
20 25 30

Val Leu Asn Cys Asn Gly Pro His Thr
35 40

<210> 517

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
245 250

474

<210> 518
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 518
 Asn Pro Xaa Lys Lys Leu Xaa Ile Leu Ile Lys Trp Pro Pro Pro Phe
 1 5 10 15
 Pro Pro Ser Phe Pro Pro Ser Pro Asn Ser Leu Ser Ser Ser Ser Phe
 20 25 30
 Pro Pro Pro Leu Ser Leu Phe Ser Pro Ser Phe Thr Phe Leu Ile Ser
 35 40 45
 Val Lys Leu Glu Arg Phe Glu Ile Pro Ile Lys Val Arg Leu Ser Pro
 50 55 60
 Glu Pro Trp Thr Pro Glu Thr Gly Leu Val Thr Asp Ala Phe Lys Leu
 65 70 75 80
 Lys Arg Lys Glu Leu Arg Asn His Tyr Leu Lys Asp Ile Glu Arg Met
 85 90 95
 Tyr Gly Gly Lys
 100

<210> 519
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

475

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

His Glu Asp Gly Xaa Leu Met Gly Cys Arg His Arg Trp His Pro Arg
 1 5 10 15

Xaa Val Pro Phe His Gln Thr Ser Pro Lys Thr Glu Leu Glu Ser Thr
 20 25 30

Ile Phe Gly Ser Pro Arg Leu Ala Ser Gly Leu Phe Pro Glu Trp Gln
 35 40 45

Ser Trp Gly Arg Met Glu Asn Leu Ala Ser Tyr Arg
 50 55 60

<210> 520

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ser His Pro Tyr Ala Pro Ser Cys Gly Leu Arg Gly Pro Gly Ala Ala
 1 5 10 15

Ser Arg Ala Arg Thr Arg Glu Arg Xaa Pro Gln Ala Glu Ala Glu Ala
 20 25 30

Arg Ser Thr Pro Gly Pro Ala Gly Ser Arg Leu Gly Pro Glu Thr Phe
 35 40 45

Arg Gln Arg Phe Arg Gln Phe Arg Tyr Gln Asp Ala Ala Gly Pro Arg
 50 55 60

Glu Ala Phe Arg Gln Leu Arg Glu Leu Ser Arg Gln Trp Leu Arg Pro
 65 70 75 80

Asp Ile Arg Thr Lys Glu Gln Ile Val Glu Met Leu Val Gln Glu Gln
 85 90 95

Leu Leu Ala Ile Leu Pro Glu Ala Ala Arg Ala Arg Arg Ile Arg Arg
 100 105 110

Arg Thr Asp Val Arg Ile Thr Gly

476

115

120

<210> 521

<211> 96

<212> PRT

<213> Homo sapiens

<400> 521

Gly His Gln Thr Val Ser Pro Ser Thr Gly Ser Arg Val Thr Arg Met
1 5 10 15

Phe Ser Leu Ile Ser Phe Ser His Val Phe Ile Lys Asp Ile Cys Lys
20 25 30

Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys Trp Tyr
35 40 45

Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly Gly Cys
50 55 60

Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu Lys Val
65 70 75 80

Cys Ala Pro Val Leu Ala Lys Pro Gly Val Ile Ser Val Met Gly Thr
85 90 95

<210> 522

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 522

Asn Ser Gly Phe Arg Pro Lys Asn Pro Val Gly Arg Gly Gly Glu Pro
1 5 10 15

Glu Xaa Cys Gly Gly Ala Gly Gly Leu Gly Cys Thr Leu Val Trp Gly
20 25 30

Gly Thr Gly Ala Ala Val Val Thr Gly Val Val Trp Leu Leu Leu Pro

477

35 40 45
Asn Gly Gly Val Gly Val Gly Leu Leu Gly Pro Gln Ser Pro Val Gly
50 55 60
Gly Ser Asp Ser Ala Pro Tyr Ser Leu His Pro Ala Gly Arg Thr Trp
65 70 75 80
Gly Leu Arg Ser Glu Cys Ile Pro Pro Leu Ser Phe Asn Leu Ser Cys
85 90 95
Arg Thr His Ser Gly Pro Gly Ala Arg Leu Gly Glu Ala Gly Pro Asn
100 105 110
Tyr Gly Ser Arg Glu Leu Gln Val Pro Thr
115 120

<210> 523

<211> 94

<212> PRT

<213> Homo sapiens

<400> 523

Leu Ile Pro Gln Val Cys Cys Lys His Ser Met Glu Asp Thr Asp Asp
1 5 10 15
Ser Leu Val Leu Val Phe Leu Ser Ala Val Asn Val Gln Gln Phe Ala
20 25 30
Gln Glu Leu Gly Asp His Ile Cys Leu Ser Gly Gln Gly Ser Glu Val
35 40 45
His Trp Asn Leu Leu Arg Asn Leu Phe Val Lys Thr Ile Val Asn Asn
50 55 60
Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu Glu Asn Cys Ile Leu Ser
65 70 75 80
Ile Lys Val Phe Leu Cys Lys Lys Lys Lys Lys Lys Leu Val
85 90

<210> 524

<211> 93

<212> PRT

<213> Homo sapiens

<220>

478

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Val | Met | Gly | Arg | Lys | Lys | Lys | Lys | Gln | Leu | Lys | Pro | Trp | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Cys | Asn | Arg | Asp | Phe | Asp | Asp | Glu | Lys | Ile | Leu | Ile | Gln | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Ala | Lys | His | Phe | Lys | Cys | His | Ile | Cys | His | Lys | Lys | Leu | Tyr |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Pro | Gly | Leu | Ala | Ile | His | Cys | Met | Gln | Val | His | Lys | Glu | Thr |
| | 50 | | | | | | 55 | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Ala | Val | Pro | Asn | Ala | Tyr | Leu | Gly | Glu | Gln | Thr | Xaa | Ile | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Trp | Tyr | Gly | Xaa | Tyr | Ser | Arg | Lys | Arg | Tyr | Xaa |
| | | | | 85 | | | | | | 90 | | |

<210> 525

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (323)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 525

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Arg | Leu | Ser | Arg | Pro | Glu | Ala | Val | Glu | Ala | Glu | Ala | Met | Met |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Met | Ala | Thr | Ala | Arg | Val | Arg | Met | Gly | Pro | Arg | Cys | Ala | Gln |
| | | | 20 | | | | | | 25 | | | | | 30 | |

479

Ala Leu Trp Arg Met Pro Trp Leu Pro Val Phe Leu Ser Leu Ala Ala
 35 40 45
 Ala Ala Ala Ala Ala Ala Ala Glu Gln Gln Val Pro Leu Val Leu Trp
 50 55 60
 Ser Ser Asp Arg Asp Leu Trp Ala Pro Ala Ala Asp Thr His Glu Gly
 65 70 75 80
 His Ile Thr Ser Asp Leu Gln Leu Ser Thr Tyr Leu Asp Pro Ala Leu
 85 90 95
 Glu Leu Gly Pro Arg Asn Val Leu Leu Phe Leu Gln Asp Lys Leu Ser
 100 105 110
 Ile Glu Asp Phe Thr Ala Tyr Gly Gly Val Phe Gly Asn Lys Gln Asp
 115 120 125
 Ser Ala Phe Ser Asn Leu Glu Asn Ala Leu Asp Leu Ala Pro Ser Ser
 130 135 140
 Leu Val Leu Pro Ala Val Asp Trp Tyr Ala Val Ser Thr Leu Thr Thr
 145 150 155 160
 Tyr Leu Gln Glu Lys Leu Gly Ala Ser Pro Leu His Val Asp Leu Ala
 165 170 175
 Thr Leu Arg Glu Leu Lys Leu Asn Ala Ser Leu Pro Ala Leu Leu Leu
 180 185 190
 Ile Arg Leu Pro Tyr Thr Ala Ser Ser Gly Leu Met Ala Pro Arg Glu
 195 200 205
 Val Leu Thr Gly Asn Asp Glu Val Ile Gly Gln Val Leu Ser Thr Leu
 210 215 220
 Lys Ser Glu Asp Val Pro Tyr Thr Ala Ala Leu Thr Ala Val Arg Pro
 225 230 235 240
 Ser Arg Val Ala Arg Asp Val Ala Val Val Ala Gly Gly Leu Gly Arg
 245 250 255
 Gln Leu Leu Gln Lys Gln Pro Val Ser Pro Val Ile His Pro Pro Val
 260 265 270
 Ser Tyr Asn Asp Thr Ala Pro Arg Ile Leu Phe Trp Ala Gln Asn Phe
 275 280 285
 Ser Val Ala Tyr Lys Asp Gln Trp Glu Asp Leu Thr Pro Leu Thr Phe
 290 295 300

480

Gly Val Gln Glu Leu Asn Leu Thr Gly Ser Phe Trp Asn Asp Ser Phe
 305 310 315 320

Ala Ser Xaa His

<210> 526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 526

Phe Xaa Val Ser Trp Thr Trp Lys Gln Val Ser Glu Phe Pro Gly Asp
 1 5 10 15

Gln Arg Asp Glu Val Leu Gln Leu Pro Pro Ser Ser Cys Asn Leu Val
 20 25 30

Ser Ser Gly Ala Gly Gly Glu Pro Glu Lys Leu Ala Ser Tyr Ile Thr
 35 40 45

Ser Leu Trp Leu Phe Phe Ile Cys Lys Thr Arg Ile Ile Leu Asn Cys
 50 55 60

Lys Gly
 65

<210> 527

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Asn Thr Gln Leu Trp Phe Leu Cys Phe Pro Asn Cys Lys Ala Ala Asp
 1 5 10 15

481

Asn Lys Thr Pro Gly Phe His Val Ser Ser Ala Met Ser Thr Leu Thr
 20 25 30
 Gln Ile Leu Lys Gln Asn Ser Xaa Asn Ala Val Leu Arg Ile Gln Leu
 35 40 45
 Leu Leu Lys Pro Ile Ser Ile Cys Ile Ile Thr Thr Asn Ile
 50 55 60

<210> 528
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 528
 Tyr Asn Lys Ile Glu Ile Met His Leu Val Met Trp Pro Thr Ser Leu
 1 5 10 15
 Leu Thr Thr Met Asp Cys Phe Gln Gln Gln Leu Ile Phe Trp Ser Val
 20 25 30
 Leu Arg Gly Ala Cys Met Ser Phe Val Thr Ser Gly Ser Thr Pro Ala
 35 40 45
 Val Lys Tyr Cys Phe His Leu Pro Leu Gln Lys Ala Ser Cys Leu Leu
 50 55 60
 Thr Ser Thr Ala Lys Ala Leu Phe Trp Thr Gly Tyr Leu Ile Lys Xaa
 65 70 75 80
 Ile Ser Val Arg Leu Cys Ser Val Ile Pro Ser Glu Pro Arg Phe Val
 85 90 95

Ser Lys Ala Thr Val Leu Ser Xaa Xaa Pro Cys Val Trp Gly Gln Val

482

100 105 110
 Ala Ile Pro Pro Met Ser Leu Val Ile Leu
 115 120

<210> 529
 <211> 182
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 529
 Asp Arg Thr Arg Leu Ser Gln Ala Ser Thr Pro Thr Pro Val Cys Trp
 1 5 10 15

Gly Leu Leu Gln Pro Pro Pro Trp Xaa Glu Ala Trp Tyr Arg Leu Thr
 20 25 30

His Arg Gly Leu Cys Gln Val Arg Phe Cys Arg Trp Ser Gln Ala Leu
 35 40 45

Pro Glu Ala Arg Gly Gly Ala Trp Ala Gly Ser Pro Gly Glu Gly Gln
 50 55 60

Ala Gly Pro Arg Leu His Thr His Ile Gln Pro Ala Gly Leu Ser Ala
 65 70 75 80

Val Leu Ser Pro Ser Leu Ser Ser Pro Ser Ser Ala Val Thr Leu Ser
 85 90 95

Ser Pro Ser Leu Pro Ala Ser Pro Pro Ala Ala Pro Pro Val Lys Arg
 100 105 110

Met Thr Lys Asp Leu Ser Tyr Ala Gly Ser Lys Asn Gln Asn Phe Leu
 115 120 125

Leu Ala Phe Ser Phe Val Ala Ser Pro Ala Pro Ala Leu Pro Val Ser
 130 135 140

His Pro Gly Pro Arg Leu Glu Ala Ser Leu His Leu Ser Tyr Cys Phe
 145 150 155 160

Lys Pro Lys Phe Thr Val Ser Val Gly Gly Gln Asp Leu Leu Ser Pro
 165 170 175

483

Pro Leu Leu His Pro Pro
180

<210> 530

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530

Ala Leu Val Leu Gly Xaa Lys Ser Val Arg Met Ala Ser Ser Arg Met
1 5 10 15

Thr Arg Arg Asp Pro Leu Thr Asn Lys Val Ala Leu Val Thr Ala Ser
20 25 30

Thr Asp Gly Ile Gly Phe Ala Ser Pro Gly Val Trp Pro Arg Thr Gly
35 40 45

Pro Arg Gly Arg Gln Gln Pro Glu Ala Ala Glu Cys Gly Pro Gly Gly
50 55 60

Gly Thr Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Cys Xaa Xaa
65 70 75 80

Xaa Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
85 90 95

Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn Pro
100 105 110

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<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
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```

<400> 531
Asn Ser Ala Pro Leu Ser Pro Thr Gly Leu Gly Gln Gly His Thr Gly
  1                      5                      10                      15
His Val Arg Phe Leu Ala Ala Val Gln Leu Pro Asp Gly Phe Asn Leu
      20                      25                      30
Leu Cys Pro Thr Pro Pro Pro Pro Pro Asp Thr Gly Pro Glu Lys Leu
      35                      40                      45
Pro Ser Leu Glu His Arg Asp Ser Pro Trp His Arg Gly Pro Ala Pro
      50                      55                      60
Ala Arg Pro Lys Met Leu Val Ile Ser Gly Gly Asp Gly Tyr Glu Asp
  65                      70                      75                      80
Phe Arg Leu Ser Ser Gly Gly Gly Xaa Ala Val Arg Leu Trp Val Glu
      85                      90                      95

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485

Thr Thr Ala Gln Thr Thr Xaa Ser Cys Gly Gly Cys Asp Pro Val Cys
 100 105 110

Arg Gly Pro Gly Leu Ala Arg Pro Pro Ala Phe Ser Leu Leu Ala Ser
 115 120 125

Pro

<210> 532

<211> 91

<212> PRT

<213> Homo sapiens

<400> 532

Gly Ala Ile Ala Ser Ser Gly Pro Thr Gly Gly Arg Val Arg Lys His
 1 5 10 15

Gln Leu Leu Pro Gly Ala Val Arg Glu Trp Glu Gln Leu Trp Ala Pro
 20 25 30

His Phe Arg Gln Val Leu Pro Lys Pro Ser Asp Ala Val Arg Pro Gly
 35 40 45

Leu Pro Val Val Leu Phe Arg Leu Cys Phe Gln Asn Ala Phe Ile Ser
 50 55 60

Ser Val Pro Phe Gly Pro His Lys Ser Pro Trp Gly Val Gly Gly Gly
 65 70 75 80

Leu Cys Arg His Pro His Phe Lys Ala Gly Ser
 85 90

<210> 533

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Asn Leu Cys Gln Val Gln Pro Thr Arg Leu Tyr Ser Ser Leu His Ser
 1 5 10 15

486

Gly Leu His His Val Arg Gln Val Thr Gln Lys Ser Tyr Lys Val Ser
 20 25 30

Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro
 35 40 45

Gly Ser Arg Ile Ser Ser Ser Ala Phe Ser Arg Val Gly Gly Xaa Ser
 50 55 60

Gly Gly Ala
 65

<210> 534

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 534

Phe Asn Arg Arg Tyr Pro Lys Ile Gln Phe Ser Leu Ser Thr Gly Pro
 1 5 10 15

Ser Gly Thr Met Leu Asp Gly Val Leu Glu Gly Lys Leu Asn Ala Ala
 20 25 30

Phe Ile Asp Gly Pro Ile Asn His Thr Ala Ile Asp Gly Ile Pro Val
 35 40 45

Tyr Arg Glu Glu Leu Met Ile Val Thr Pro Gln Gly Tyr Ala Pro Val
 50 55 60

Thr Arg Ala Ser Gln Val Asn Gly Ser Asn Ile Tyr Ala Phe Arg Ala
 65 70 75 80

Asn Cys Ser Tyr Arg Arg His Phe Glu Ser Trp Phe His Ala Asp Gly
 85 90 95

Ala Ala Pro Gly Thr Ile His Glu Met Glu Ser Tyr His Gly Met Leu
 100 105 110

487

Ala Cys Val Ile Ala Gly Ala Gly Ile Ala Leu Ile Pro Arg Ser Met
 115 120 125

Leu Glu Ser Met Pro Gly His His Gln Val Glu Xaa Xaa Ala Val Ser
 130 135 140

<210> 535

<211> 175

<212> PRT

<213> Homo sapiens

<400> 535

Arg Ala Pro Ala Arg Ile Ser Gly Gly Gly Ser Ala Met Val Gly Gly
 1 5 10 15

Gly Gly Val Gly Gly Gly Leu Leu Glu Asn Ala Asn Pro Leu Ile Tyr
 20 25 30

Gln Arg Ser Gly Glu Arg Pro Val Thr Ala Gly Glu Glu Asp Glu Gln
 35 40 45

Val Pro Asp Ser Ile Asp Ala Arg Glu Ile Phe Asp Leu Ile Arg Ser
 50 55 60

Ile Asn Asp Pro Glu His Pro Leu Thr Leu Glu Glu Leu Asn Val Val
 65 70 75 80

Glu Gln Val Arg Val Gln Val Ser Asp Pro Glu Ser Thr Val Ala Val
 85 90 95

Ala Phe Thr Pro Thr Ile Pro His Cys Ser Met Ala Thr Leu Ile Gly
 100 105 110

Leu Ser Ile Lys Val Lys Leu Leu Arg Ser Leu Pro Gln Arg Phe Lys
 115 120 125

Met Asp Val His Ile Thr Pro Gly Thr His Ala Ser Glu His Ala Val
 130 135 140

Asn Lys Gln Leu Ala Asp Lys Glu Arg Val Ala Ala Ala Leu Glu Asn
 145 150 155 160

Thr His Leu Leu Glu Val Val Asn Gln Cys Leu Ser Ala Arg Ser
 165 170 175

488

<210> 536

<211> 148

<212> PRT

<213> Homo sapiens

<400> 536

Gly Trp His Arg Thr His His Arg Gly Arg His Gln Ala Arg Glu Ala
1 5 10 15

Glu Glu Glu Ala Trp Ala Ala Ala Glu Pro Ile Lys Lys Val Arg Lys
20 25 30

Ser Leu Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser
35 40 45

Thr Leu Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser
50 55 60

Ser Ser Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Leu Leu Asn
65 70 75 80

Gln Gly Phe Leu Gln Ala Lys Pro Glu Lys Ala Ala Val Ala Gln Lys
85 90 95

Pro Arg Ser His Phe Thr Thr Pro Ala Pro Met Ser Ser Ala Trp Lys
100 105 110

Thr Val Ala Cys Gly Gly Thr Arg Asp Gln Leu Phe Met Gln Glu Lys
115 120 125

Ala Arg Gln Leu Leu Gly Arg Leu Lys Pro Ser His Thr Ser Arg Thr
130 135 140

Leu Ile Leu Ser
145

<210> 537

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

489

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 537

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Thr | Arg | Ser | Ala | Trp | Trp | Gly | Arg | Leu | Leu | Ser | Arg | Val | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Pro | Arg | Pro | Ala | Ser | Pro | Ser | Val | Ser | Thr | Arg | Asn | Gln | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Ala | Arg | Arg | Gly | Val | Glu | Xaa | Xaa | Glu | Cys | Glu | Glu | Thr | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Ala | Glu | Arg | Ala | Gly | Pro | Pro | Arg | Ala | Leu | Val | Phe | Gly | Ala |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gln | Ser | Arg | Ser | Pro | Gly |
| 65 | | | | | 70 |

<210> 538

<211> 206

<212> PRT

<213> Homo sapiens

<400> 538

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Val | Ser | Ala | Ser | Gly | Ile | Ala | Arg | Arg | Gly | Gly | Pro | Met | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Gly | Gly | Ala | Pro | Arg | Leu | Val | Leu | Leu | Phe | Ser | Gly | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Gly | Lys | Asp | Phe | Val | Thr | Glu | Ala | Leu | Gln | Ser | Arg | Leu | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Val | Cys | Ala | Val | Leu | Arg | Leu | Ser | Gly | Pro | Leu | Lys | Glu | Gln |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Gln | Glu | His | Gly | Leu | Asn | Phe | Gln | Arg | Leu | Leu | Asp | Thr | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Lys | Glu | Ala | Phe | Arg | Lys | Asp | Met | Ile | Arg | Trp | Gly | Glu | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Gln | Ala | Asp | Pro | Gly | Phe | Phe | Cys | Arg | Lys | Ile | Val | Glu | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Gln | Pro | Ile | Trp | Leu | Val | Ser | Asp | Thr | Arg | Arg | Val | Ser | Asp |
| | | | 115 | | | | 120 | | | | | | 125 | | |

490

Ile Gln Trp Phe Arg Glu Ala Tyr Gly Ala Val Thr Gln Thr Val Arg
 130 135 140
 Val Val Ala Leu Glu Gln Ser Arg Gln Gln Arg Gly Trp Val Phe Thr
 145 150 155 160
 Pro Gly Val Asp Asp Ala Glu Ser Glu Cys Gly Leu Asp Asn Phe Gly
 165 170 175
 Asp Phe Asp Trp Val Ile Glu Asn His Gly Val Glu Gln Arg Leu Glu
 180 185 190
 Glu Gln Leu Glu Asn Leu Ile Glu Phe Ile Arg Ser Arg Leu
 195 200 205

<210> 539
 <211> 350
 <212> PRT
 <213> Homo sapiens

<400> 539
 Ser Thr Leu Ile Ala Phe Ile Val Ile Ser Thr Leu Phe Pro Leu Leu
 1 5 10 15
 Asp Met Thr Glu Ile Tyr Phe Ser Leu Leu Asp Glu Ile Val Asp Thr
 20 25 30
 Leu Gly Glu Gly Ala Phe Gly Lys Val Val Glu Cys Ile Asp His Lys
 35 40 45
 Ala Gly Gly Arg His Val Ala Val Lys Ile Val Lys Asn Val Asp Arg
 50 55 60
 Tyr Cys Glu Ala Ala Arg Ser Glu Ile Gln Val Leu Glu His Leu Asn
 65 70 75 80
 Thr Thr Asp Pro Asn Ser Thr Phe Arg Cys Val Gln Met Leu Glu Trp
 85 90 95
 Phe Glu His His Gly His Ile Cys Ile Val Phe Glu Leu Leu Gly Leu
 100 105 110
 Ser Thr Tyr Asp Phe Ile Lys Glu Asn Gly Phe Leu Pro Phe Arg Leu
 115 120 125
 Asp His Ile Arg Lys Met Ala Tyr Gln Ile Cys Lys Ser Val Asn Phe
 130 135 140

491

Leu His Ser Asn Lys Leu Thr His Thr Asp Leu Lys Pro Glu Asn Ile
 145 150 155 160
 Leu Phe Val Gln Ser Asp Tyr Thr Glu Ala Tyr Asn Pro Lys Ile Lys
 165 170 175
 Arg Asp Glu Arg Thr Leu Ile Asn Pro Asp Ile Lys Val Val Asp Phe
 180 185 190
 Gly Ser Ala Thr Tyr Asp Asp Glu His His Ser Thr Leu Val Ser Thr
 195 200 205
 Arg His Tyr Arg Ala Pro Glu Val Ile Leu Ala Leu Gly Trp Ser Gln
 210 215 220
 Pro Cys Asp Val Trp Ser Ile Gly Cys Ile Leu Ile Glu Tyr Tyr Leu
 225 230 235 240
 Gly Phe Thr Val Phe Pro Thr His Asp Ser Lys Glu His Leu Ala Met
 245 250 255
 Met Glu Arg Ile Leu Gly Pro Leu Pro Lys His Met Ile Gln Lys Thr
 260 265 270
 Arg Lys Arg Lys Tyr Phe His His Asp Arg Leu Asp Trp Asp Glu His
 275 280 285
 Ser Ser Ala Gly Arg Tyr Val Ser Arg Arg Cys Lys Pro Leu Lys Glu
 290 295 300
 Phe Met Leu Ser Gln Asp Val Glu His Glu Arg Leu Phe Asp Leu Ile
 305 310 315 320
 Gln Lys Met Leu Glu Tyr Asp Pro Ala Lys Arg Ile Thr Leu Arg Glu
 325 330 335
 Ala Leu Lys His Pro Phe Phe Asp Leu Leu Lys Lys Ser Ile
 340 345 350

<210> 540

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

492

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (304)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (317)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 540

Gln Ala Thr Met Gly Asn Val Leu Ala Ala Ser Ser Pro Pro Ala Gly
1 5 10 15

Pro Pro Pro Pro Pro Ala Pro Ala Leu Val Gly Leu Pro Pro Pro Pro
20 25 30

Pro Ser Pro Pro Gly Phe Thr Leu Pro Pro Leu Gly Gly Ser Leu Gly
35 40 45

Ala Gly Thr Ser Thr Xaa Arg Xaa Ser Glu Arg Thr Pro Gly Ala Ala
50 55 60

Thr Ala Ser Ala Ser Gly Ala Ala Glu Asp Gly Ala Cys Gly Cys Leu
65 70 75 80

Pro Asn Pro Gly Thr Phe Glu Glu Cys His Arg Lys Cys Lys Glu Leu
85 90 95

Phe Pro Ile Gln Met Glu Gly Val Lys Leu Thr Val Asn Lys Gly Leu
100 105 110

493

Ser Asn His Phe Gln Val Asn His Thr Val Ala Leu Ser Thr Ile Gly
 115 120 125
 Glu Ser Asn Tyr His Phe Gly Val Thr Tyr Val Gly Thr Lys Gln Leu
 130 135 140
 Ser Pro Thr Glu Ala Phe Pro Val Leu Val Gly Asp Met Asp Asn Ser
 145 150 155 160
 Gly Ser Leu Asn Ala Gln Val Ile His Gln Leu Gly Pro Gly Leu Arg
 165 170 175
 Ser Lys Met Ala Ile Gln Thr Gln Gln Ser Lys Phe Val Asn Trp Gln
 180 185 190
 Val Asp Gly Glu Tyr Arg Gly Ser Asp Phe Thr Ala Ala Val Thr Leu
 195 200 205
 Gly Asn Pro Asp Val Leu Val Gly Ser Gly Ile Leu Val Ala His Tyr
 210 215 220
 Leu Gln Ser Ile Thr Pro Cys Leu Ala Leu Gly Gly Glu Leu Val Tyr
 225 230 235 240
 His Arg Arg Pro Gly Glu Glu Gly Thr Val Met Ser Leu Ala Gly Lys
 245 250 255
 Tyr Thr Leu Asn Asn Trp Leu Ala Thr Val Thr Leu Gly Gln Ala Gly
 260 265 270
 Met His Ala Thr Tyr Tyr His Lys Ala Ser Asp Gln Leu Gln Val Gly
 275 280 285
 Val Glu Phe Glu Ala Ser Thr Arg Xaa Gln Asp Thr Ser Val Ser Xaa
 290 295 300
 Xaa Val Pro Ala Trp Asn Leu Pro Lys Gly Gln Pro Xaa Leu Ser Lys
 305 310 315 320
 Xaa Leu Leu Gly

<210> 541

<211> 204

<212> PRT

<213> Homo sapiens

<400> 541

494

```

Arg Gly Pro Thr Phe Thr Pro Glu Ile Met Ala Ala Glu Asp Val Val
 1             5             10             15

Ala Thr Gly Ala Asp Pro Ser Asp Leu Glu Ser Gly Gly Leu Leu His
      20             25             30

Glu Ile Phe Thr Ser Pro Leu Asn Leu Leu Leu Gly Leu Cys Ile
      35             40             45

Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala Ala Ser Gly
      50             55             60

Asp Ser Asp Asp Asp Glu Pro Pro Pro Leu Pro Arg Leu Lys Arg Arg
      65             70             75             80

Asp Phe Thr Pro Ala Glu Leu Arg Arg Phe Asp Gly Val Gln Asp Pro
      85             90             95

Arg Ile Leu Met Ala Ile Asn Gly Lys Val Phe Asp Val Thr Lys Gly
      100            105            110

Arg Lys Phe Tyr Gly Pro Glu Gly Pro Tyr Gly Val Phe Ala Gly Arg
      115            120            125

Asp Ala Ser Arg Gly Leu Ala Thr Phe Cys Leu Asp Lys Glu Ala Leu
      130            135            140

Lys Asp Glu Tyr Asp Asp Leu Ser Asp Leu Thr Ala Ala Gln Gln Glu
      145            150            155            160

Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His Val
      165            170            175

Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp Glu
      180            185            190

Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp
      195            200

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<210> 542

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

495

<400> 542

Pro Ala Tyr Ser Leu Gly Leu Leu Lys Ser Val Leu Asp Gly Gly Gly
 1 5 10 15

Ala Gly Ala His Gln Ala Arg Ser Asn Pro Ser Cys Met Tyr Pro Gln
 20 25 30

Gly Thr Phe Val Ile Pro Leu Leu Val Thr Ala His Arg Asp Pro Thr
 35 40 45

Gln Phe Lys Asp Pro Asp Cys Phe Asn Pro Thr Asn Phe Leu Asp Lys
 50 55 60

Gly Lys Phe Gln Gly Asn Asp Ala Phe Met Pro Phe Ala Ser Gly Ala
 65 70 75 80

Gly Arg Gly Gly Arg Gly Pro Ala Trp Thr Gly Ser Gly Val Pro Gly
 85 90 95

Ala His Cys Ala Pro Val Tyr Pro Ala Lys Gln Met Cys Leu Gly Thr
 100 105 110

Gly Leu Ala His Ser Gly Ile Phe Leu Phe Leu Thr Ala Thr Leu Gln
 115 120 125

Arg Phe Cys Leu Leu Pro Val Val Arg Pro Gly Thr Ile Asn Leu Thr
 130 135 140

Cys Ser Ala Leu Ala Trp Ala Val Ser Pro Gln Thr Ser Ser Ser Ser
 145 150 155 160

Gln Trp Pro Ala Glu Val Arg Leu His Tyr Gly Gly Leu Thr Gly Pro
 165 170 175

Gln Thr Ser Ile Pro Ser Xaa Val Asn Lys Gly Pro Lys Leu Gln Lys
 180 185 190

Lys

<210> 543

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> xaa equals any of the naturally occurring L-amino acids

496

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 543

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Val | Arg | Xaa | Pro | Gly | Arg | Pro | Thr | Arg | Pro | Met | Ala | Ala | Glu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Gln | Gln | Gln | Lys | Gln | Glu | Pro | Leu | Gly | Ser | Asp | Ser | Glu | Val |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Val | Trp | Pro | Met | Met | Lys | Pro | Ser | Trp | Leu | Ser | Arg | Thr | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Lys | Arg | Leu | Leu | Cys | Arg | Thr | Leu | Trp | Cys | Gln | Ser | Gly | Trp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Arg | Ser | Tyr | Thr | Arg | Ser | Met | Leu | Lys | Met | Thr | Thr | Ser | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Arg | Ser | Arg | Thr | Ser | Thr | Lys | Ser | Thr | Arg | Thr | Ser | Ala | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Leu | Thr | Ala | Thr | Val | Ser | Ile | Gly | Leu | Ser | Asp | Ser | Pro | Thr |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | His | Cys | Trp | Met | Thr | Ala | Arg | Ser | Cys | Ser | Gly | Glu | Lys | Gly |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Trp | Ala | Pro | Arg | Gln | Val | Gly | Val | Tyr | Leu | Leu | Pro | Gly | Arg |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Cys | Val | Ser | Ser | Arg | Val | Ser | Xaa | Ser | Phe | Pro | Gly | Asp | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Ser | Gly | Leu | Ala | Xaa | Arg | Gly | Ser | Ala | Val | Ser | Ala | Leu | Ala |
| | | | 165 | | | | | 170 | | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Leu | Val | Glu | Glu | Pro | Met | Leu | Gly | Pro | Pro | Phe | His | Pro | Thr |
| | | 180 | | | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Phe | Lys | Ala | Val | Ser | Ala | Lys | Ser | Lys | Glu | Asp | Leu | Val | Ser |
| | | 195 | | | | | 200 | | | | | 205 | | | |

497

Gln Gly Phe Thr Glu Phe Thr Ile Glu Asp Phe His Asn Thr Phe Met
 210 215 220
 Asp Leu Ile Glu Gln Val Glu Lys Gln Thr Ser Val Ala Asp Leu Leu
 225 230 235 240
 Ala Ser Phe Asn Asp Gln Ser Thr Ser Asp Tyr Leu Val Val Tyr Leu
 245 250 255
 Arg Leu Leu Thr Ser Gly Tyr Leu Gln Arg Glu Ser Lys Phe Phe Glu
 260 265 270
 His Phe Ile Glu Gly Gly Arg Thr Val Lys Glu Phe Cys Gln Gln Glu
 275 280 285
 Val Glu Pro Met Cys Lys Glu Ser Asp His Ile His Ile Ile Ala Leu
 290 295 300
 Ala Gln Ala Leu Ser Val Ser Ile Gln Val Glu Tyr Met Asp Arg Gly
 305 310 315 320
 Glu Gly Gly Thr Thr Asn Pro His Ile Phe Pro Glu Gly Ser Glu Pro
 325 330 335
 Lys Val Tyr Leu Leu Tyr Arg Pro Gly His Tyr Asp Ile Leu Tyr Lys
 340 345 350

<210> 544

<211> 240

<212> PRT

<213> Homo sapiens

<400> 544

Ser Thr His Ala Ser Glu Met Ala Glu Arg Gly Tyr Ser Phe Ser Leu
 1 5 10 15
 Thr Thr Phe Ser Pro Ser Gly Lys Leu Val Gln Ile Glu Tyr Ala Leu
 20 25 30
 Ala Ala Val Ala Gly Gly Ala Pro Ser Val Gly Ile Lys Ala Ala Asn
 35 40 45
 Gly Val Val Leu Ala Thr Glu Lys Lys Gln Lys Ser Ile Leu Tyr Asp
 50 55 60
 Glu Arg Ser Val His Lys Val Glu Pro Ile Thr Lys His Ile Gly Leu

498

| | | | | | | |
|---|-----|----|-----|----|-----|-----|
| 65 | | 70 | | 75 | | 80 |
| Val Tyr Ser Gly Met Gly Pro Asp Tyr Arg Val Leu Val His Arg Ala | | | | | | |
| | 85 | | 90 | | 95 | |
| Arg Lys Leu Ala Gln Gln Tyr Tyr Leu Val Tyr Gln Glu Pro Ile Pro | | | | | | |
| | 100 | | 105 | | 110 | |
| Thr Ala Gln Leu Val Gln Arg Val Ala Ser Val Met Gln Glu Tyr Thr | | | | | | |
| | 115 | | 120 | | 125 | |
| Gln Ser Gly Gly Val Arg Pro Phe Gly Val Ser Leu Leu Ile Cys Gly | | | | | | |
| | 130 | | 135 | | 140 | |
| Trp Asn Glu Gly Arg Pro Tyr Leu Phe Gln Ser Asp Pro Ser Gly Ala | | | | | | |
| | 145 | | 150 | | 155 | 160 |
| Tyr Phe Ala Trp Lys Ala Thr Ala Met Gly Lys Asn Tyr Val Asn Gly | | | | | | |
| | 165 | | 170 | | 175 | |
| Lys Thr Phe Leu Glu Lys Arg Tyr Asn Glu Asp Leu Glu Leu Glu Asp | | | | | | |
| | 180 | | 185 | | 190 | |
| Ala Ile His Thr Ala Ile Leu Thr Leu Lys Glu Ser Phe Glu Gly Gln | | | | | | |
| | 195 | | 200 | | 205 | |
| Met Thr Glu Asp Asn Ile Glu Val Gly Ile Cys Asn Glu Ala Gly Phe | | | | | | |
| | 210 | | 215 | | 220 | |
| Arg Arg Leu Thr Pro Thr Glu Val Lys Asp Tyr Leu Ala Ala Ile Ala | | | | | | |
| | 225 | | 230 | | 235 | 240 |

<210> 545

<211> 181

<212> PRT

<213> Homo sapiens

<400> 545

| | | | | | | |
|---|----|---|----|----|----|----|
| Arg Cys Ile Leu Tyr Thr Gly Phe Met Leu Gly Ala Gln Arg Glu Val | | | | | | |
| 1 | | 5 | | 10 | | 15 |
| Asp Ser Arg Leu Leu Ala Leu Pro Gly Arg Lys Val Pro Thr Ser Trp | | | | | | |
| | 20 | | 25 | | 30 | |
| Trp Asp Asp Leu Phe Lys Gly Ala Lys Glu His Gly Ala Val Ala Val | | | | | | |
| | 35 | | 40 | | 45 | |

499

Glu Arg Val Thr Lys Ser Pro Gly Glu Thr Ser Lys Pro Arg Pro Phe
 50 55 60
 Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala Pro Glu Glu Glu Ser Ala
 65 70 75 80
 Tyr Val Ala Gly Glu Lys Arg Gln His Ser Ser Gln Asp Val His Val
 85 90 95
 Val Leu Lys Leu Trp Lys Ser Gly Phe Ser Leu Asp Asn Gly Glu Leu
 100 105 110
 Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln Phe Leu Glu Ser Ile Arg
 115 120 125
 Arg Gly Glu Val Pro Ala Glu Leu Arg Arg Leu Ala His Gly Gly Gln
 130 135 140
 Val Asn Leu Asp Met Glu Asp His Arg Asp Glu Asp Phe Val Lys Pro
 145 150 155 160
 Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu Gly Gln Lys Leu Gly Ser
 165 170 175
 Thr Ala Pro Arg Cys
 180

<210> 546
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 546
 Pro Arg Val Arg Arg Arg Ala Arg Ala Ala Gly Ser Ser His Ala
 1 5 10 15
 Ala Met Ala Asp Ser Glu Leu Gln Leu Val Glu Gln Arg Ile Arg Ser
 20 25 30
 Phe Pro Asp Phe Pro Thr Pro Gly Val Val Phe Arg Asp Ile Ser Pro
 35 40 45
 Val Leu Lys Asp Pro Ala Ser Phe Arg Ala Ala Ile Gly Leu Leu Ala
 50 55 60
 Arg His Leu Lys Ala Thr His Gly Gly Arg Ile Asp Tyr Ile Ala Gly
 65 70 75 80

500

Leu Asp Ser Arg Gly Phe Leu Phe Gly Pro Ser Leu Ala Gln Glu Leu
 85 90 95
 Gly Leu Gly Cys Val Leu Ile Arg Lys Arg Gly Lys Leu Pro Gly Pro
 100 105 110
 Thr Leu Trp Ala Ser Tyr Ser Leu Glu Tyr Gly Lys Ala Glu Leu Glu
 115 120 125
 Ile Gln Lys Asp Ala Leu Glu Pro Gly Gln Arg Val Val Val Val Asp
 130 135 140
 Asp Leu Leu Ala Thr Gly Gly Thr Met Asn Ala Ala Cys Glu Leu Leu
 145 150 155 160
 Gly Arg Leu Gln Ala Glu Val Leu Glu Cys Val Ser Leu Val Glu Leu
 165 170 175
 Thr Ser Leu Lys Gly Arg Glu Lys Leu Ala Pro Val Pro Phe Phe Ser
 180 185 190
 Leu Leu Gln Tyr Glu
 195

<210> 547

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Glu Thr Gly Lys Glu Ser Lys Ala Leu Phe Leu Pro Phe Pro Gly Ser
 1 5 10 15
 Val Tyr Ser Thr Ser Thr Gly Glu Ala Ser Gly Glu Gly Leu Ser Pro
 20 25 30
 Leu Pro His Leu His Glu Phe Trp Asn Ser Val Leu Leu Ala Ala Cys
 35 40 45
 Phe Gln Leu Pro Pro Ile Ser Ile Ala Ala Gly Ser Ser Cys Leu Phe
 50 55 60
 Tyr Ser Val Ile Lys His Pro Ala Pro Thr Leu Ser Gln Arg Ser Ile
 65 70 75 80